

Eastern Petro 22. Santa Fe  
NE/4-SW/4 Sec 27-Twp 20N-R27/E  
Apache, County

363

P-W

COUNTY Apache

Navajo Springs

LEASE NO. Santa Fe Fee

WELL NAME Eastern #35 Santa Fe

LOCATION	SW NE SW	SEC 27	TWP 20N	RANGE 27E	FOOTAGE	1650 FSL	1650 FWL
ELEV 5750	GR	KB	SPUD DATE	1-4-64	STATUS	HP	TOTAL
5757 GR from USGS 7 1/2'	quad per JNC				COMP. DATE	5-11-64	DEPTH 1072
							1062'?

**CONTRACTOR**

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	DRILLED BY CABLE TOOL	PRODUCTIVE RESERVOIR	INITIAL PRODUCTION
4½	1062	65	NA	x			Shut in Helium well
7	64	10					

[illegible]

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG _____
No logs run due to lost circ.		1052-62	SAMPLE DESCRP. _____
			SAMPLE NO. _____
			CORE ANALYSIS _____
			DSTs _____
REMARKS <del>Shut in Helium Well/ Casing set on top of formation</del> believed to be Coconino at 1062'			APP. TO PLUG <input checked="" type="checkbox"/>
			PLUGGING REP. <input checked="" type="checkbox"/>
			COMP. REPORT <input checked="" type="checkbox"/>

WATER WELL ACCEPTED BY

BOND CO. U. S. Fidelity &amp; Guaranty Company

BOND NO. 27716 13-3983-65

BOND AMT. \$ 25,000

CANCELLED 6-26-78

DATE \_\_\_\_\_

ORGANIZATION REPORT 9-17-63

FILING RECEIPT 9362

LOC. PLAT                      x

WELL BOOK      x

PLAT BOOK x

API NO.

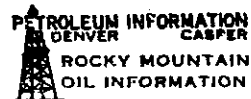
DATE ISSUED 1-16-64

DEDICATION A11/4

PERMIT NUMBER 263

(over)

263  
ARIZONA  
APACHE CO.  
NAVAJO SPRINGS (D)



Twp 20n-27e  
Section 27  
ne sw  
1650 n/s 1650 e/w

OPR: Eastern Pet

WELL #:

35 Eastern-Santa Fe-Fee

ELEV: 5750 Gr.

DSTS. & CORES:

SPUD:

COMPL:

TOPS: Log-Sample

TD: approx 1200

PB:

CSG:

PERF:

PROD. ZONE:

INIT. PROD:

Helium gas well

(CARD WILL BE RE-ISSUED WHEN DATA RELEASED)

ARIZ 10-463260

## WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

## DESIGNATE TYPE OF COMPLETION:

New Well ☒ Work-Over ☐ Deepen ☐ Plug Back ☐ Same Reservoir ☐ Different Reservoir ☐ Oil ☐ Gas ☒ Dry ☐

## DESCRIPTION OF WELL AND LEASE

Operator Eastern Petroleum Company		Address Box 291, Carmi, Illinois	
Lease Name Eastern-Santa Fe Fee		Well Number 35	Field & Reservoir Navajo Springs Area
Location 1650' N of S.L.; 1650' E. of W.L. SW Sec. 27-20N-27E			
County Apache	Permit number 263	Date Issued 1-14-64	Previous permit number Date Issued
Date spudded 1-4-64	Date total depth reached 1-11-64	Date completed, ready to produce	Elevation (DF, RKB, RT or Gr.) 5750 feet
Total depth 1072	P.B.T.D.	Single, dual or triple completion? Single	Elevation of casing hd. flange feet
Producing interval (s) for this completion Casing set on top of formation believed to be Coconino @ 1062' 1452'		Rotary tools used (interval) Entire	Cable tools used (interval) --
Was this well directionally drilled? No		Was directional survey made? No	Was copy of directional survey filed? Date filed
Type of electrical or other logs run (check logs filed with the commission) No logs run due to lost circulation			Date filed

## CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Long String	6 1/2"	4 1/2"		1062	65	
Surface		7"		64	10	

## TUBING RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
In.	ft.	ft.	In.	ft.	ft.		

## PERFORATION RECORD

Number per ft.	Size & type	Depth Interval	ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD
			Am't. & kind of material used
None			None

## INITIAL PRODUCTION

Date of first production		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)				
Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
			bbls.	MCF	bbls.	* API (Corr)
Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
			bbls.	1570 MCF	bbls.	

Disposition of gas (state whether vented, used for fuel or sold):

Shut-in

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Secretary of the Eastern Petroleum Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

April 6, 1964  
Date

Signature

STATE OF ARIZONA OIL & GAS  
CONSERVATION COMMISSIONWell Completion or Recompletion Report and Well Log  
Form No. P-7 File two copies

Authorized by Order No.

Effective April 8, 1964

263

DETAIL OF FORMATIONS PENETRATED			
Formation	Top	Bottom	Description*

A circular stamp from the State of Oregon, Department of Transportation. The outer ring contains the numbers 1 through 12. The inner text reads "STATE OF OREGON" at the top, "DEPT. OF TRANSPORTATION" at the bottom, and "RECEIVED" in the center. The date "OCT 10 1964" is stamped across the middle.

**INSTRUCTIONS:**

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. P-7

PLUGGING RECORD					
Operator <b>Eastern Petroleum Company</b>			Address <b>Box 291, Carmi, Illinois 62821</b>		
Federal, State, or Indian Lease Number, or lessor's name if fee lease. <b>Santa Fe</b>		Well No. <b>35</b>	Field & Reservoir <b>Navajo Springs Coconino Sand Unit</b>		
Location of Well <b>1650' NSL; 1650 EWL</b>		Sec-Twp-Rge or Block & Survey <b>27-20N-27E</b>		County <b>Apache</b>	
Application to drill this well was filed in name of <b>Eastern Petroleum Company</b>		Has this well ever produced oil or gas <b>Yes</b>		Character of well at completion (initial production): Oil (bbls/day) <b>-</b> Gas (MCF/day) <b>1570</b> Dry? <b>-</b>	
Date plugged: <b>10/12/77</b>		Total depth <b>1062</b>		Amount well producing when plugged: Oil (bbls/day) <b>-</b> Gas (MCF/day) <b>TSTM</b> Water (bbls/day) <b>-</b>	
Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging	Fluid content of each formation		Depth interval of each formation		Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement
<b>Coconino</b>	<b>Water</b>		<b>1052-1062</b>		<b>Top to bottom with 15 bbls cement slurry</b>
CASING RECORD					
Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped, etc.)	Packers and shoes
<b>7"</b>	<b>64</b>	<b>None</b>	<b>64</b>	<b>-</b>	<b>-</b>
<b>4-1/2"</b>	<b>1062</b>	<b>None</b>	<b>1062</b>		
Was well filled with mud-laden fluid, according to regulations?				Indicate deepest formation containing fresh water.	
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name		Address		Direction from this well:	
<b>Spurlock Ranches</b>		<b>Navajo, Arizona</b>		<b>Land Owner</b>	
In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.					
Use reverse side for additional detail.					
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <b>Secretary</b> of the <b>Eastern Petroleum Company</b> (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.					
Date <b>11/1/77</b>		Signature <i>J. M. Edwards</i>			
<div style="font-size: 2em; opacity: 0.5;">COPY</div> <div style="font-weight: bold;">263</div>			STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy		
Permit No. _____			Form No. 10		

# APPLICATION TO ABANDON AND PLUG

FIELD Navajo Springs Coconino Sand Unit  
 OPERATOR Eastern Petroleum Company ADDRESS Box 291, Carmi, Illinois 62821  
 Federal, State, or Indian Lease Number Santa Fe WELL NO. 35  
 or Lessor's Name if Fee Lease  
 LOCATION 1650' NSL; 1650' EWL Section 27-20N-27E, Apache County  
 TYPE OF WELL Gas-Helium TOTAL DEPTH 1062'  
 (Oil, Gas or Dry Hole)  
 ALLOWABLE (If Assigned)  
 LAST PRODUCTION TEST OIL -- (Bbls.) WATER -- (Bbls.)  
 GAS 1570 (MCF) DATE OF TEST 4/12/65  
 PRODUCING HORIZON Coconino PRODUCING FROM 1052 TO 1062  
 1. COMPLETE CASING RECORD

7" casing @ 64' w/10 sks.  
 4½" casing @ 1062' w/65 sks.

## 2. FULL DETAILS OF PROPOSED PLAN OF WORK

Plug top to bottom w/cement slurry

DATE COMMENCING OPERATIONS 10/12/77  
 NAME OF PERSON DOING WORK Petroleum Consultants ADDRESS Denver, Colorado  
 Signature  
Secretary  
 Title  
P. O. Box 291, Carmi, Illinois 62821  
 Address  
November 1, 1977  
 Date

Date Approved \_\_\_\_\_  
 STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Application to Abandon and Plug  
 File Two Copies

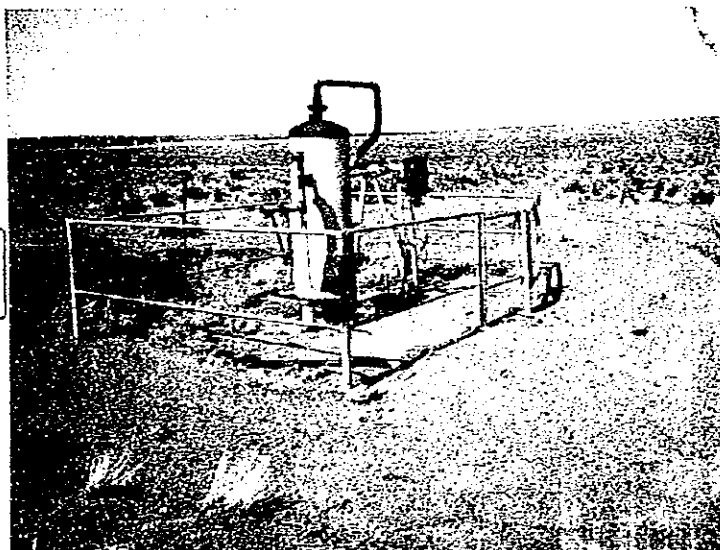
Form No. 9

COPY

Permit No. 263, Santa Fe 35

3-27-74

Well shut-in. Separator and meter  
set at well. Pit not filled.  
pressure on well



Santa Fe 35

263

263



NAVAJO SPRINGS AREA WELLS EASTERN PETROLEUM COMPANY - OPERATOR

PERMIT NUMBER	WELL NAME	LOCATION	TOTAL DEPTH	FORMATION	INTERVAL PERFORATED	COMPLETION DATE	INITIAL POTENTIAL MCFD	12-31-73 CUMULATIVE PROD. (MCF)	DATE OF LAST PROD.	PROD. CSG. DEPTH & SIZE	HOLE SIZE	NO. CEMENT SACKS USED	ESTIMATED TOP OF CEMENT	OPERATORS EST. OF CSG. RECOVERABLE	REMARKS
✓ 110	Crest Santa Fe #2	NE/SW 33-20N-27E	1140 PBT 1105	Coconino	1062-72	6-24-60	12.75	Never Prod.		2 7/8" @ 1107	4 3/4"	50			
✓ 184	Eastern Santa Fe #13	NE/SW 31-20N-27E	980	Coconino	Open Hole	6-25-62	6290	1,400,623		4 1/2" @ 967	6 1/4"	50			Navajo Spring
✓ 204	Crest Santa Fe #7	SE/NE 6-19N-27E	1060	Coconino	1042-52	9-11-62	185	Never Prod.		2 7/8" @ 1060	4 3/4"	28			
✓ 206	Eastern Santa Fe #14	SE/NW 5-19N-27E	1100 1361	Coconino	1026-56	10-16-62	300	47,594	Oct. 1973	4 1/2" @ 1100	6 3/4"	140			
✓ 234*	Ancon Santa Fe Fee #21	SE/NW 31-20N-28E	PBT 1330	Shinarump	1173-94+	9-13-63	3.0	22,005	Sept. 1972	2 7/8" @ 1330	4 3/4"	55	730	1300	East Navajo Shinarump Pool
✓ 236	Santa Fe Fee #17	SW/NW 4-19N-27E	1057	Coconino	1037-57	6-17-63	250	56,948	Dec. 1973	4 1/2" @ 1057	6 1/4"	65			
✓ 235	Kerr-McGee Barfoot #1	NE/SW 32-20N-27E	1087	Coconino	936-1008	7-30-63	1160	225,555		4 1/2" @ 1076	6 3/4"	140			Navajo Spring
✓ 255	Santa Fe Fee #31	NW/SE 29-20N-27E	1049	Coconino	992-1006	10-25-63	590	Never Prod.		2 7/8" @ 1049	4 3/4"	50			( Remedial work ( between casing ( work not rep.
✓ 256	Santa Fe Fee #32	NE/SW 23-20N-27E	1133	Coconino	1090-1120	11-24-63	95	Never Prod.		2 7/8" @ 1133	6 1/4"	75			
✓ 263	Santa Fe Fee #35	NE/SW 27-20N-27E	1072	Coconino	Open Hole	5-11-64	1279	27,481	Oct. 1973	4 1/2" @ 1062	6 1/4"	65			
✓ 265	Pocce #2 Fee	SW/NE 1-19N-26E	1067	Coconino	1012-16	3-0-66	250-260 Est.	Never Prod.		2 7/8" @ 1052	4 3/4"	100			
✓ 471	Crest Santa Fe #1	SE/SE 25-20N-27E	1225 PBT 1140	Shinarump	1046-1110	11-20-68	51	34,451	Dec. 1973	4 1/2" @ 1171	6 1/4"	70			Originally and East Navajo Shinarump Pool
✓ 536*	Santa Fe Fee #24	SE/NW 24-20N-27E	1340 PBT 1173	Shinarump	1145-73	9-30-71	Negligible	Never Prod.		2 7/8" @ 1303	4 1/4"	220	Enough cement to circulate	1200	
✓ 537*	Santa Fe Fee #21-1A	NW/NW 31-20N-28E	1232	Coconino	Open Hole	9-15-70	470	1,209	Oct. 1972	4 1/2" @ 1215	4 1/4"	100	625	1075	
✓ 560*	Kiva Santa Fe Fee #1	NE/SW 13-20N-25E	1230 PBT 1150	Shinarump	1040-56	12-06-71	No Gas Reported	Never Prod.		4 1/2" @ 1152	6 1/4"	100	440	1040	
✓ 565*	Santa Fe #6X-1	SE/NW 25-20N-25E	1261 PBT 1174	Shinarump	1126-60	1-06-72	No Gas Reported	Never Prod.		4 1/2" @ 1261	6 1/4"	100	720	1125	
✓ 565*	Santa Fe Fee Sanders #2	NE/SW 15-21N-25E	516	Coconino	406-420	4-20-72	TSM	Never Prod.		4 1/2" @ 516	6 1/4"	75	115	410	
✓ 575*	Szar State #1	NW/NW 36-20N-27E	1215	Shinarump	1154-62	4-25-72	Well On Vacuum During Test	Never Prod.		4 1/2" @ 1215	6 1/4"	170	62	1075	East Navajo Shinarump Pool
✓ 584*	Santa Fe Fee Dreck #1	SE/SW 25-20N-27E	1266	Shinarump		6-21-72	Not Tested	Never Prod.		7" @ 1255	6 3/4"	65	Circulated Surface	None	1st well in reported pool
✓ 592*	Indian Allotted Verde #1	SE/SW 30-20N-25E	1200 13-3	Shinarump	1062-93	8-17-72	156	991	Oct. 1973	4 1/2" @ 1200	6 1/4"	130	Bottom 72600	1040	Hole in this well between
✓ 596*	Indian Allotted Verde #2	SW/SE 30-20N-25E	PBT 1215	Shinarump	Completion Report Never Submitted			Never Prod.		2 7/8" @ 1195***	4 3/4"	No Report		115	
✓ 599*	Kiva Santa Fe Fee #2	NE/SW 24-20N-25E	1230	Coconino	1155-1215	11-12-72	TSM	Never Prod.		4 1/2" @ 1230	6 1/4"	60	577	1075	
✓ 600*	Santa Fe Fee Beacon #1	NW/SE 29-20N-29E	1265	Coconino	No Perfs. Reported	3-25-72	No Test Reported	Never Prod.		4 1/2" @ 1265	6 1/4"	55	515	1125	
✓ 601*	Santa Fe Fee #1-11	NE/SE 11-20N-28E	1075	Coconino	Open Hole	11-10-72	TSM	Never Prod.		4 1/2" @ 1055	6 1/4"	65	710	1055	

\* Applications to plug have been approved.

Cement bond log indicates bottom of cement at 726'

From Application to Plug

NAVAJO SPRINGS AREA WELLS EASTERN PETROLEUM COMPANY - OPERATOR

LOCATION	TOTAL DEPTH	FORMATION	INTERVAL PERFORATED	COMPLETION DATE	INITIAL POTENTIAL MCFD	12-31-73 CUMULATIVE PROD. (MCF)	DATE OF LAST PROD.	PROD. CSG. DEPTH & SIZE	HOLE SIZE	NO. CEMENT SACKS USED	ESTIMATED TOP OF CEMENT	OPERATORS EST. OF CSG. RECOVERABLE	REMARKS
NE/SW 33-20N-27E	1140 PBD 1105	Coconino	1062-72	6-24-60	12.75	Never Prod.		2 7/8" @ 1107	4 3/4"	50			
NE/SW 31-20N-27E	980	Coconino	Open Hole	6-25-62	6290	1,400,623		4 1/2" @ 967	6 1/4"	50			Navajo Springs Unit
SE/NE 6-19N-27E	1060	Coconino	1042-52	9-11-62	185	Never Prod.		2 7/8" @ 1060	4 3/4"	28			
SE/NW 5-19N-27E	1100 1361	Coconino	1026-56	10-16-62	300	47,594	Oct. 1973	4 1/2" @ 1100	6 3/4"	100			
SE/NW 31-20N-28E	PBD 1330	Shinarump	1173-94+	9-13-63	3.0	22,005	Sept. 1972	2 7/8" @ 1330	4 3/4"	85	730	1300	East Navajo Springs Shinarump Pool
SW/NW 4-19N-27E	1057	Coconino	1037-57	6-17-63	250	66,948	Dec. 1973	4 1/2" @ 1057	6 1/4"	65			
NE/SW 32-20N-27E	1067	Coconino	986-1005	7-30-63	1160	225,555		4 1/2" @ 1076	6 3/4"	140			Navajo Springs Unit
NW/SE 29-20N-27E	1049	Coconino	992-1006	10-25-63	590	Never Prod.		2 7/8" @ 1049	4 3/4"	90			(Remedial work on this well between completion date & test date. Work not reported.)
NE/SW 28-20N-27E	1133	Coconino	1090-1130	11-24-63	6	Never Prod.		2 7/8" @ 1133	6 1/4"	75			
NE/SW 27-20N-27E	1072	Coconino	Open Hole	5-11-64	1550	27,421	Oct. 1973	4 1/2" @ 1062	6 1/4"	65			
SW/NE 1-19N-26E	1067	Coconino	1012-16	3-02-66	250-300 Est.	Never Prod.		2 7/8" @ 1052	4 3/4"	100			
SE/SE 25-20N-27E	1225 PBD 1140	Shinarump	1046-1110	11-20-65	51	34,421	Dec. 1973	4 1/2" @ 1171	6 1/4"	70			Originally completed in Coconino
SE/NW 24-20N-27E	1340 PBD 1173	Shinarump	1145-73	9-30-71	Negligible	Never Prod.		2 7/8" @ 1303	4 3/4"	220	Enough cement to circulate	1290	East Navajo Springs Shinarump Pool
NW/NW 31-20N-28E	1232	Coconino	Open Hole	9-15-70	470	5,299	Oct. 1972	4 1/2" @ 1212	6 1/4"	100	623	1025	
NE/SW 13-20N-25E	1230 PBD 1150	Shinarump	1046-56	12-06-71	No Gas Reported	Never Prod.		4 1/2" @ 1175	6 1/4"	100	648	1025	
SE/NW 25-20N-28E	1261 PBD 1174	Shinarump	1126-60	1-06-72	No Gas Reported	Never Prod.		4 1/2" @ 1265	6 1/4"	100	730	1125	
NE/SW 15-21N-25E	516	Coconino	406-420	4-20-72	TSM	Never Prod.		4 1/4" @ 516	6 1/4"	75	116	440	
NW/NW 36-20N-27E	1215	Shinarump	1154-62	4-25-72	Well On Vacuum During Test	Never Prod.		4 1/2" @ 1215	6 1/4"	100	65	1075	East Navajo Springs Shinarump Pool
SE/SW 25-20N-27E	1266	Shinarump		6-21-72	Not Tested	Never Prod.		7" @ 255	5 3/4"	65	Circulated Surface	None	This well erroneously reported plugged.
SW/SW 30-20N-25E	1200	Shinarump	1062-93	8-17-72	156	991	Oct. 1972	4 1/2" @ 1200	6 1/4"	100	Bottom 726**	1060	Hole in case of 720'
SW/SE 30-20N-25E	1323 PBD 1215	Shinarump	Completion Report Never Submitted			Never Prod.		2 7/8" @ 1197***	4 3/4"	No Report		1152	This well flowing water between 1200' & 1250'
NE/SW 24-20N-25E	1230	Coconino	1135-1218	11-12-72	TSM	Never Prod.		4 1/2" @ 1215	6 1/4"	60	877	1072	
NW/SE 29-20N-29E	1265	Coconino	No Perfs. Reported	2-25-72	No Test Reported	Never Prod.		4 1/2" @ 1265	6 1/4"	55	815	1125	
NE/SE 11-20N-28E	1075	Coconino	Open Hole	11-10-72	TSM	Never Prod.		4 1/2" @ 1055	6 1/4"	65	710	1005	

been approved.

Bottom of cement at 726'



EYE CASE 45 805  
20120 BURY 45 905

Prepared By
Approved By

FLOW RATES ON WELLS  
IN NAVAJO SPRINGS FIELD, APACHE COUNTY, ARIZONA

RATES WITH PRESSURE CLOSE TO 100#

			ORIFICE	WELL	2"		
	SIP	WELL NAME	SIZE	TUBING	PROVER	HOURS	VOLUME
	PSIG		2" PROVER	PRESS-PSIG	PRESS - PSIG	TESTED	MCFPD
1	106.7	Santa Fe 35	7/16	96.0	91.5	15 1/2	365
2	106.7	" " 31	3/16	95.9	95.9	17 1/2	68
3	106.6	" " 32	1/8	105.7	105.7	17 1/2	39
4	133.8	" " 21	1/16	59.5	59.5	18 1/2	4
5	105.6	" " 13	7/8	99.8	42.9	15	980
6	105.4	" " 7 ✓	1/8	99.9	99.9	15 1/4	4
7	105.4	" " 14	3/8	97.4	97.4	15 1/2	270
8	105.5	" " 17	3/16	98.5	98.5	16 3/4	70
9	201.5	" " 8 ✓	1	91 - 93	12 - 13 1/2	18 1/4	7 bbls. salt water
10	105.5	" " 2	Well pulled down 17 small vol. water & gas, slightly salty.				
11							1800 MCFPD
12		* Orifice well	tester.				
13							
14	After Testing			MAXIMUM RATE OF FLOW			
15	106.6	Santa Fe 35	3/4	80.1	55.1	1 1/2	668
16	106.6	" " 31	1/2	76	76	1 1/2	394
17	106.5	" " 32	1/2	Well tight pressure kept falling			39
18	133.9	" " 21	Same as No. 2 above.				
19	105.6	" " 13	7/8 ✓	94.1	94.1	4	1900
20	105.4	" " 7	1/2	33.9	33.9	2 1/4	28
21	105.4	" " 14	7/8	71.6	39.7	3 1/4	700
22	105.5	" " 17	7/8	19.7	19.7	2	435
23	Not Taken	" " 8		9	13	18 1/4	448
24	Not Taken	" " 2	Same as No. 2 above				
25							14613
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							

Philip B. Egan  
August 13, 1961

Philip B. Emery  
August 13, 1964

Tests AS OF Aug, 1964

263

Well: E.P.Co Navajo Springs #35  
Sec 27, T20N, R27E  
Apache County, Arizona

Eastern Petroleum Company  
P. O. Box 226  
Farmington, New Mexico  
87401

Well: Status: Produced from 2-7-72 to 2-11-72

RECEIVED

FEB 18 1972

O & G CONS. COMM.

263

Well: Navajo Springs No. 35  
Sec 27, T20N, R27E  
Apache County, Arizona

Eastern Petroleum Co.  
P. O. Box 226  
Farmington, New Mexico  
87401

Status: Well produced 1-16-72 to 1-21-72, presently S.I.

RECEIVED

JAN 20 1972

O & G CONS. COMM.

263

Well: E.P.Co Navajo Springs #35  
Sec 27, T20N, R27E  
Apache County, Arizona

Eastern Petroleum Company  
P. O. Box 226  
Farmington, New Mexico

Status: Temporarily S.I.

RECEIVED

FEB 03 1972

O & G CONS. COMM.

#263

Well: E.P.Co Navajo Springs No.35  
Sec 27, T20N, R27E  
Apache County, Arizona

Eastern Petroleum Company  
P. O. Box 226  
Farmington, New Mexico  
87401

Status: On stream - 1-31-72

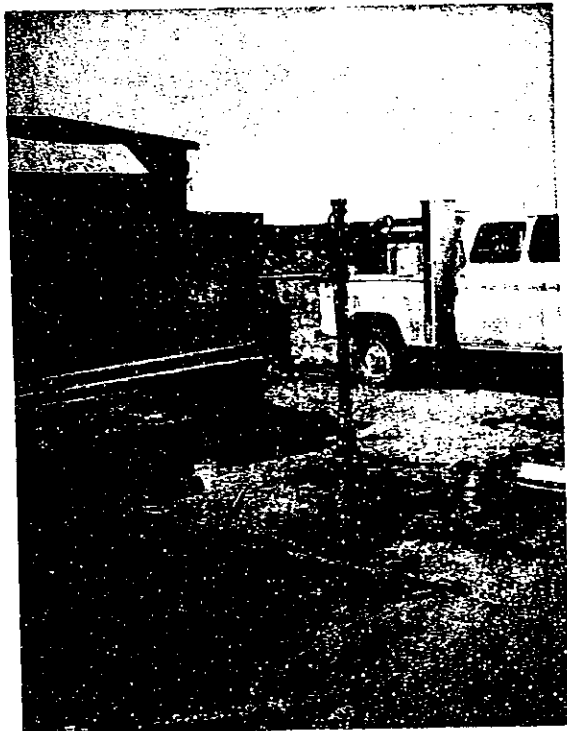
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FEB 8 1972

O & G CONS. COMM.

263

4



5-14-64



263

WELL: Navajo Springs No. 35  
Sec. 27, R20N, R27E  
Apache Co. Ariz.

Eastern Petroleum Co.  
P.O. Box 226  
FON 87401

Status: Placed on Western Helium pipeline 1-08-72  
S.I. pressure taken and flow rate.  
Waiting on continual operation of Helium plant.

RAF

#263

WPA  
SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Eastern Petroleum Company  
 2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) \_\_\_\_\_  
 3. Well Name See Below  
 Location \_\_\_\_\_  
 Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ Rge. \_\_\_\_\_ County Apache Arizona.  
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease Santa Fe Fee

5. Field or Pool Name See Below

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Shut-in wells - awaiting market - Shut-in May 21, 1971

Navajo Springs Unit

Santa Fe #14 - 4-19-27 (Permit No. 206)  
 Santa Fe #17 - 5-19-27 (Permit No. 236)  
 Santa Fe #35 - 27-20-27 (Permit No. 263)

East Navajo Springs Coconino

Santa Fe #21-A - 31-20-28 (Permit No. 537)

East Navajo Springs Shinarump

Ancon Santa Fe #21 - 31-20-28 (Permit No. 234)  
 Crest Santa Fe #1 - 25-20-27 (Permit No. 471)

8. I hereby certify that the foregoing is true and correct.

Signed [Signature] Title Secretary Date June 16, 1971

Permit No. 263

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Sundry Notices and Reports On Wells  
 File Two Copies  
 Form No. 25

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JUN 18 1971

O & G CONS. COMM.



OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE		
Federal, State or Indian Lease Number, or lessor's name if fee lease <b>Santa Fe Fee #35</b>	Field <b>Navajo Springs</b>	Reservoir <b>Coconino</b>
Survey or Sec-Twp-Rge <b>27-20N-27E</b>	County <b>Apache</b>	State <b>Arizona</b>
Operator <b>Eastern Petroleum Company</b>		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street <b>Box 291</b>	City <b>Carmi</b>	State <b>Illinois</b>
Above named operator authorizes (name of transporter) <b>Western Helium Corporation</b>		
Transporter's street address <b>P. O. Box 1358</b>	City <b>Scottsdale</b>	State <b>Arizona</b>
Field address <b>Navajo</b>		
Oil, condensate, gas well gas, casinghead gas		
To transport <b>100</b>	% of the <b>helium bearing gas.</b>	from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer <b>None</b>	% transported	Product transported
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.		

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Secretary of the Eastern Petroleum Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date December 16, 1970

Signature [Signature]

Date approved: 12-21-70

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

By: [Signature]

Permit No. 263

RECEIVED  
DEC 21 1970

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Operator's Certificate of Compliance & Authorization to  
Transport Oil or Gas from Lease  
File Two Copies  
Form No. 5

ENGINEERING REPORT

of

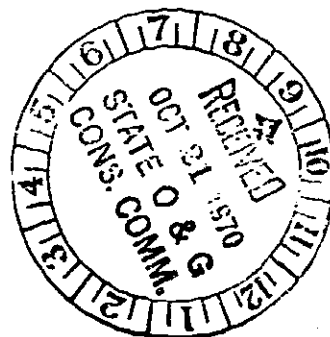
Well Tests and Gas Flow Calculations  
Shut-in Gas Wells, Navajo Springs Area  
Apache County, Arizona

For

Western Helium Corporation

by

John D. Heller



263

**JOHN M. HELLER**

REGISTERED ENGINEER

P. O. Box 1507  
1727 Forest Ave  
DURANGO, COLORADO  
81301

September 22, 1970

Phone 247-3846  
AREA CODE (303)

Western Helium Corporation  
P. O. Box 1358  
Scottsdale, Arizona 85252

Gentlemen:

Submitted herewith is an engineering report of well tests and flow rate calculations on shut-in gas wells in the Navajo Springs Unit area.

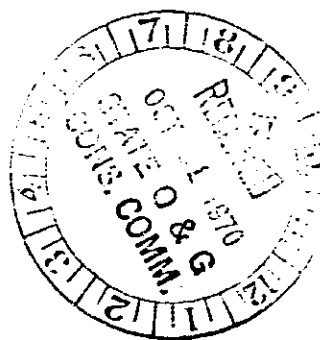
This report is made at the request of Mr. R. E. Lauth. I wish to express my appreciation to him and also Mr. Henry Fullop of Eastern Petroleum Corporation for their cooperation in obtaining the field information and the accommodations they furnished while obtaining the field information.

I believe the data shown herein is sufficient for your needs. Do not hesitate to contact me if there are any questions about this report.

Very truly yours,

*John M. Heller*  
John M. Heller

Copies to:  
Mr. Henry Fullop  
Mr. R. E. Lauth



263

- 1 -

#### PURPOSE

To determine the productive capacity of shut-in gas wells in the Navajo Springs Unit and surrounding area, Apache County, Arizona.

To project flow rates at field gathering line pressures of 10, 20, 30, and 40 psig.

#### SUMMARY

Five wells, Santa Fe Nos. 14, 17, and 21-2; Reese No. 2; and Crest No. 7, were tested. These tests and calculated data indicate the wells are capable of producing at this time. A test was attempted on Santa Fe No. 35 but results are not valid because of fluid entry into the well bore during the flow periods. This well does have the capacity to produce some gas at limited rates before remedial work is necessary.

Calculated delivery rates at various back pressures are summarized by individual wells:

Lease and Well Number	Producing Zone	Delivery Rates - MCFD			
		10 psig.	20 psig.	30 psig.	40 psig.
Santa Fe No. 14	Cocconino	935	940	845	725
Santa Fe No. 17	"	350	340	300	260
Santa Fe No. 21-2	Shinarump	525	510	500	480
Reese No. 2	Cocconino	730	690	645	550
Crest No. 7	"	130	175	180	140
Total Volume - MCFD		2770	2655	2450	2105

Santa Fe No. 35 could possibly produce at a rate of 100 MCFD without much difficulty.

263

- 2 -

#### PROGRAM and PROCEDURE

Information and data required to make the flow rate projections were obtained by individual well tests. Gas flow measurements were taken through a 2" Critical Flow Prover and a 2" Critical Well Tester at critical flow. Pressures were obtained by dead weight and test gauges to the nearest one pound increment. Assumptions were made on the gravity of the gas and the barometric pressure.

Calculations were made to a base pressure of 14.65 psia.  $60^{\circ}\text{F}$ . The back pressure curves are drawn on values of  $P_c$  and  $P_w$ . The surface shut-in and working pressures, corrected for flow friction where it was significant.

Two four point tests were satisfactorily completed and the slope of the back pressure curve on these wells was applied to the other wells where one point tests were taken.

The projected delivery rates shown in this report were obtained by analyzing the back pressure curves, calculating the flow friction and adjusting the flow volume.

#### DISCUSSION

Santa Fe Wells No. 14, 17, and 21-2; Reese No. 2; and Crest No. 7, were favorably tested. Reese No. 2 did show a slight amount of moisture at the end of the test period but does not appear to affect the delivery potential at this time. Santa Fe No. 35 test is not considered valid because of the fluid entry into the well bore during the test period. This well can be produced to some extent and could show a sizable cumulative production before it becomes necessary to recondition. It is suggested that this well be produced at a rate of about 100 MCF per day initially and checked closely for the fluid build up in the well bore, unloading by blowing full open to the atmosphere for only short periods of time when necessary.

Other wells in the Navajo Springs Unit were checked but flow tests were not taken. They would not test in a satisfactory manner. Details of these wells are shown on page number 14 of this report.

The total GOR of the five wells considered productive at this time is 3,173 MCFD. It would be prudent to start initial deliveries at approximately 25% of the GOR or about 794 MCFD. This does not include the 100 MCFD that may be produced from Santa Fe No. 35. That individual wells be checked closely for performance and the producing rates adjusted accordingly.

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

- 13 -

Type Test <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special		Test Date 9/12 & 13/70	
Company Eastern Petroleum Co.		Connection Not in service	
Well Yavajo Springs		Formation Coconino	
Completion Date 1964		Total Depth 1072	Plug Back TD 5750
Casing Size 4-1/2		Well No. 35	Unit SW/4 27 20N 27E
Casing Weight 9.5		Set At 1062	Perforations: From 1062 To 1072
None		Set At	Perforations: To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At	County Apache
Producing Thru Casing		Reservoir Temp. °F 89 Est.	Mean Annual Temp. °F 60 Est.
L		H	Baro. Press. - P <sub>a</sub> 12.0 Assumed
G <sub>g</sub> 0.910 Est.		% CO <sub>2</sub>	% N <sub>2</sub>
Prover 2" CFP		Meter Run Not used	Tap
FLOW DATA		TUBING DATA	
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.
1	Static	3/4	34
2	2" CFP	5/8	31
3	"	1/2	-
4	Blew well, unloaded water ?	shut-in overnight.	96 After 16 3/4 hr. SI.
5	2" CFP	5/16	36
RATE OF FLOW CALCULATIONS		Casing Data	
NO.	Coefficient (24 Hour)	Prover Pressure P <sub>m</sub>	Flow Temp. Factor F <sub>t</sub>
1	Not Calc.		
2	"		
3	"		
4			
5	2.2080	83	0.9337
Gas Liquid Hydrocarbon Ratio		Super Compress. Factor, F <sub>pv</sub>	
A.P.I. Gravity of Liquid Hydrocarbons		Rate of Flow Q, Mcfd	
Specific Gravity Separator Gas		175 Approx.	
Specific Gravity Flowing Fluid			
Critical Pressure			
Critical Temperature			
P <sub>c</sub>		P <sub>c</sub>	
P <sub>w</sub>		P <sub>w</sub>	
P <sub>c</sub> - P <sub>w</sub>		P <sub>c</sub> - P <sub>w</sub>	
AOF = Q		AOF = Q	
Absolute Open Flow		Angle of Slope	
Not calculated		Slope, n	
Remarks: Well bore was loading up with water. Rate in No. 5 column for information only.			
Approved By Commission:		Conducted By: 263	
Calculated By:		Checked By:	

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Eastern Petroleum Company

2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) \_\_\_\_\_

3. Well Name Eastern Santa Fe #35

Location NE SW

Sec. 27 Twp. 20N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease  
Santa Fe Pacific Railroad Co.

5. Field or Pool Name Navajo Springs Unit

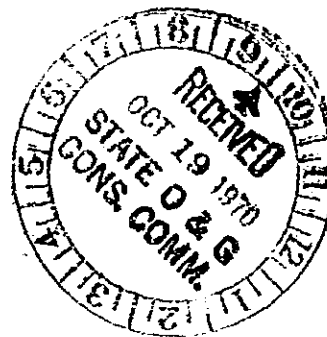
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Shut-in</u>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Well shut-in



I hereby certify that the foregoing is true and correct.

Signed [Signature] Title Secretary Date September 30, 1970

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Sundry Notices and Reports On Wells  
File Two Copies  
Form No. 25 1

Permit No. 263

SUNDY NOTICES AND REPORTS ON WELLS

WA

1. Name of Operator Eastern Petroleum Company

2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) \_\_\_\_\_

3. Well Name Eastern Santa Fe #35

Location NE SW

Sec. 27 Twp. 20N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease  
Santa Fe Pacific Railroad Co.

5. Field or Pool Name Navajo Springs Unit

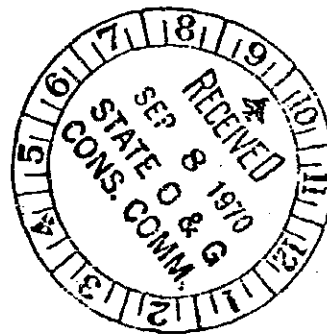
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NOTICE OF INTENTION TO:			SUBSEQUENT REPORT OF:		
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FRACTURE TREAT	<input type="checkbox"/>	DIRECTIONAL DRILL	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
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REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>	ABANDONMENT	<input type="checkbox"/>
(OTHER)	<input type="checkbox"/>	(OTHER)	<input type="checkbox"/>	Shut-in	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Well shut-in - reopening indefinite



8. I hereby certify that the foregoing is true and correct.

Signed [Signature] Title Secretary Date Sept. 2, 1970

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Sundry Notices and Reports On Wells  
File XXX Copies

Form No. 25 1

Permit No. 263



SUNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator Eastern Petroleum Company

2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) \_\_\_\_\_

3. Well Name Eastern Santa Fe #35

Location NE SW

Sec. 27 Twp. 20N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease \_\_\_\_\_  
Santa Fe Pacific Railroad Co.

5. Field or Pool Name Navajo Springs Unit

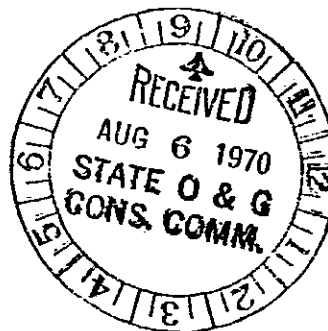
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REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Shut-in</u>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Well shut-in - Reopening indefinite



8. I hereby certify that the foregoing is true and correct.

Signed J. H. Edwards Title Secretary Date August 4, 1970

Permit No. 263

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Sundry Notices and Reports On Wells  
 File 263 Copies 1  
 Form No. 25

# SUNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator Eastern Petroleum Company

2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) \_\_\_\_\_

3. Well Name Eastern Santa Fe #35

Location NE SW

Sec. 27 Twp. 20N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease  
Santa Fe Pacific Railroad Co.

5. Field or Pool Name Navajo Springs Unit

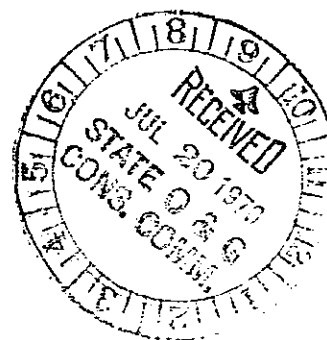
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NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
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SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Shut-in</u>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Well shut-in - Reopening indefinite



8. I hereby certify that the foregoing is true and correct.

Signed [Signature] Title Secretary Date July 17, 1970

Permit No. 263

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Sundry Notices and Reports On Wells  
File 25 Copies  
Form No. 25

**SUNDY NOTICES AND REPORTS ON WELLS**

1. Name of Operator Eastern Petroleum Company

2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) \_\_\_\_\_

3. Well Name Eastern Santa Fe #35

Location NE SW

Sec. 27 Twp. 20N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease \_\_\_\_\_  
Santa Fe Pacific Railroad Co.

5. Field or Pool Name Navajo Springs Unit

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
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SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) _____		(OTHER) <u>Shut-in</u>	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Well shut-in - Reopening indefinite

8. I hereby certify that the foregoing is true and correct.

Signed \_\_\_\_\_

Title \_\_\_\_\_

Secretary

Date June 1, 1970

Permit No. 263

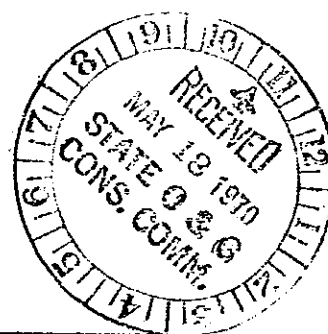
**STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION**

Sundry Notices and Reports On Wells

File 2000 Copies

Form No. 25

1



SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Eastern Petroleum Company

2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) \_\_\_\_\_

3. Well Name Eastern Santa Fe #35

Location NE SW

Sec. 27 Twp. 20N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease \_\_\_\_\_  
Santa Fe Pacific Railroad Co.

5. Field or Pool Name Navajo Springs Unit

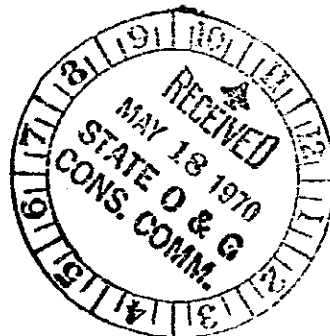
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FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Shut-in</u> <input checked="" type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Well shut-in - Reopening indefinite



8. I hereby certify that the foregoing is true and correct.

Signed \_\_\_\_\_

Title Secretary

Date May 15, 1970

Permit No. 263

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Sundry Notices and Reports On Wells  
 File XXX Copies  
 Form No. 25 1

# SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Eastern Petroleum Company

2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) \_\_\_\_\_

3. Well Name Eastern Santa Fe Fee #35

Location NE SW

Sec. 27 Twp. 20N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease \_\_\_\_\_  
Santa Fe Pacific Railroad Co. fee

5. Field or Pool Name Navajo Springs Unit

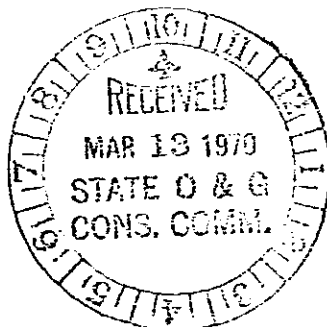
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) _____		(OTHER) <u>Shut-in</u>	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Well shut-in - Reopening indefinite



8. I hereby certify that the foregoing is true and correct.

Signed \_\_\_\_\_

Title \_\_\_\_\_

Secretary

Date March 11, 1970

Permit No. 263

Form No. 25

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Sundry Notices and Reports On Wells  
File 263 Copies

1

**SUNDRY NOTICES AND REPORTS ON WELLS**

1. Name of Operator Eastern Petroleum Company

2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) \_\_\_\_\_

3. Well Name Eastern Santa Fe Fee #35

Location NE SW

Sec. 27 Twp. 20N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Santa Fe Pacific R.R. Co.

5. Field or Pool Name Navajo Springs

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

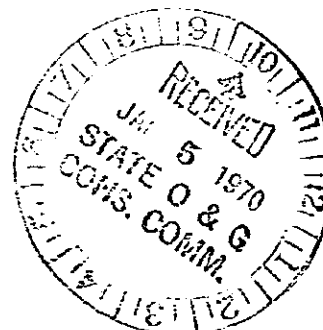
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) <u>Shut in</u>	<input checked="" type="checkbox"/>	(OTHER) _____	<input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Well shut-in since July 31, 1969

Plans for producing indefinite at this time



8. I hereby certify that the foregoing is true and correct.

Signed [Signature] Title Secretary Date January 2, 1970

Permit No. 263

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Sundry Notices and Reports On Wells  
File Two Copies

Form No. 25

April 10, 1969

MEMO TO: Arizona Helium File

FROM : James Bourlock

Mr. Robert MacTough was in the office this date. Reports Arizona Helium Corporation started production last night. They have been beset with much trouble in the past few months. Replacing CO<sub>2</sub> scrubbing unit and relaying some field pipe. The Poly Vinyl Chloride piping blew up on two occasions during testing periods. The laboratory specs had indicated that this pipe would withstand pressures up to 1100 pounds per square inch; but, it failed when subjected to 200 pounds of line pressure by Arizona Helium Corporation. The pipe exploded and caused a rip in the line over long distances.

The company now has begun to use fiberglass pipe which seems to work well.

At present, three wells are tied into the plant: the Eastern #21 Union Well, Section 21, T20N, R37E; the Eastern #25 Unit, Fe, Section 27, T20N, R37E; and the Eastern #26 Unit, Fe, Section 28, T20N, R37E. These three wells now are delivering approximately 170,000 cubic feet of raw gas per day to the plant. A compressor located approximately 1/2 of a mile from the plant strengthens the line pressure to 200 pounds as it enters the plant. The raw gas consists of about 8.8% helium. If these wells can continue to deliver at this steady rate, the plant theoretically should be able to produce about 1,000 MCF of grade A helium per month. We understand from Mr. MacTough that about 1,500 MCF per month would be required to break even economically. Therefore, the plant will be producing initially at a loss.

Immediate plans include working over the Cres. #2X Unit, Fe, Section 25, T20N, R37E. This well has had some problems with water; however, the operator has great hopes in this well as a good producer. This #2X Well is already tied into the plant but is not yet on production.

234

263-X✓

471

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473

MEMO: FILES  
FROM: J. SCURLOCK

1-29-69

Re: Arizona Helium Plant, Navajo, Arizona

Visited Arizona Helium Plant. Conversation with Mr. Dick McDonald. Mr. McDonald indicated that he hoped to have the plant on production by March 15. According to him, the situation was very favorable. At present four wells have been tied into the plant:

1. Ancon #21 (a shinarump producer) This well (EASTERN ANCON #21 SANTA FE)  
234 is expected to make approximately 1,000 CFG per day with no water.
2. #35 Santa Fe (located in Navajo Springs Unit) Operator will be allowed to take (EASTERN #35 SANTA FE)  
263 70,000 CFG per day from this well; that is to say, 16% of the allocated Navajo Springs production.
3. #1 Well (located in section 25, SE) This well (CREST-ARIZ Helium #1 SANTA FE)  
471 is expected to produce about 400,000 CFG per day with 25 barrels of water.
4. #6X Well (located in SW of section 25) This (CREST-ARIZ Helium #35 SANTA FE)  
473 well is expected to produce about 300,000 CFG per day with about 30 barrels of water.

Mr. McDonald indicated that these four wells will produce enough gas to put the plant on stream, initially; but that much more raw gas would be needed in the future. Therefore, the company anticipates drilling about 25 wells this year in the south Navajo area on company acreage. They have great hopes for the shinarump production in this area.

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OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE		
Federal, State or Indian Lease Number, or lessor's name if fee lease <b>Santa Fe fee &amp; State</b>	Field <b>Navajo Springs</b>	Reservoir <b>Coconino</b>
Survey or Sec-Twp-Rge <b>Navajo Springs Unit</b>	County <b>Apache</b>	State <b>Arizona</b>
Operator <b>Eastern Petroleum Company</b>		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street <b>Box 291</b>	City <b>Carmi</b>	State <b>Illinois</b>
Above named operator authorizes (name of transporter) <b>Kerr-McGee Oil Industries, Inc.</b>		
Transporter's street address <b>Kerr-McGee Building</b>	City <b>Oklahoma City</b>	State <b>Oklahoma</b>
Field address <b>Navajo, Arizona</b>		
Oil, condensate, gas well gas, casinghead gas		
To transport <b>100</b>	% of the	gas from the Navajo Springs Unit <del>XXXXXXX</del>
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
<i>This well is being drilled by the Navajo Springs Unit - the lease is to be taken from the well.</i>		
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.		
Certificate is to allow for the hookup of an additional well to the Kerr-McGee transmission line. Effective September 7, 1965.		

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

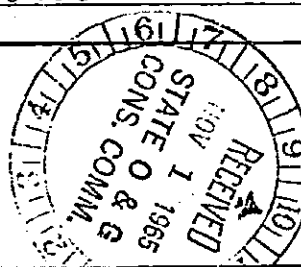
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Secretary of the Eastern Petroleum Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date October 27, 1965

Signature J. Edwards

Date approved: Nov 1, 1965  
STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

By: John Bonmister  
Permit No. Navajo Springs Unit



STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Operator's Certificate of Compliance & Authorization to  
Transport Oil or Gas from Lease  
File Two Copies

DOMESTIC SERVICE	
Check the class of service desired; otherwise this message will be sent as a fast telegram	
TELEGRAM	
DAY LETTER	
NIGHT LETTER	

\$  
\$  
E

# WESTERN UNION TELEGRAM

1206 (4-55)

W. P. MARSHALL, PRESIDENT

INTERNATIONAL SERVICE	
Check the class of service desired; otherwise the message will be sent at the full rate	
FULL RATE	
LETTER TELEGRAM	
SHORE SHIP	

NO. WDS.-CL. OF SVC.	PD. OR COLL.	CASH NO.	CHARGE TO THE ACCOUNT OF	TIME FILED
From: Otto Barton, Superintendent, Oil and Gas Production, Pan Handle Division, Kerr-McGee Oil Industries, Inc., Sunray, Texas				

Send the following message, subject to the terms on back hereof, which are hereby agreed to

May 26, 1964  
4:30 p.m.

Mr. John Bannister  
Oil & Gas Conservation Commission  
1624 West Adams  
Phoenix, Arizona

Outlined below please find analyses of gas from samples taken from Eastern Petroleum Company Wells No. 31, Section 29; No. 32, Section 28; No. 35, Section 27, all in T20N - R27E, Apache County, Arizona:

Well No. 31: Argon .79, CO2 .89, Helium 8.32, Hydrogen 90.00, Total percentage 100.00. Specific gravity .9065.

Well No. 32: Argon .79, CO2 .88, Helium 8.34, Nitrogen 89.99, Total percentage 100.00, Specific gravity .9063.

Well No. 35: Argon .68, CO2 .90, Helium 8.34, Nitrogen 90.08, Total percentage 100.00, Specific gravity .9039.

This information furnished at request of Henry Fullop, President, Eastern Petroleum Company.

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SILAS C. BROWN & ASSOCIATES  
GEOLOGICAL CONSULTANTS  
P. O. BOX 1266  
SCOTTSDALE, ARIZONA

May 26, 1964

Arizona Oil and Gas Conservation  
Commission  
1624 West Adams  
Phoenix, Arizona 85007

Atten: Mr. John Bannister  
Executive Secretary

Dear Sir:

On May 11, 1964 I was retained by Mr. John Bannister to represent the Commission and witness potential tests on the following helium wells owned by the Eastern Petroleum Company in Apache County, Arizona:

1. No. 31 Santa Fe, NW $\frac{1}{4}$  SE $\frac{1}{4}$  Section 29-T20N-R27E.
2. No. 32 Santa Fe, NE $\frac{1}{4}$  SW $\frac{1}{4}$  Section 23-T20N-R27E.
3. No. 35 Santa Fe, NE $\frac{1}{4}$  SW $\frac{1}{4}$  Section 27-T20N-R27E.

The instructions were to secure a basic 2-point test or more points if necessary to establish an accurate potential on the wells listed above.

I met with Mr. Otto Barton of Kerr-McGee Oil Industries, Inc. and Mr. Henry Fallop of Eastern Petroleum Company at 7:30 A.M. on May 12, 1964 in Navajo, Arizona. We were joined by Mr. Richard Otto of Kerr-McGee and potential tests were made on Wells No. 31 and 35. Well No. 32 had been given a mud-acid treatment during the morning of May 12th. An attempt was made to potential the well on the morning of May 13th, however, acid water was still present and pressures would not stabilize. The well was blown open flow for 1 hour and 40 minutes without appreciable decrease in the amount of acid water. The well was blown open flow for the balance of the day and still made acid water but no salty formation water was observed. To conserve gas the well was then shut in to be tested in 10 to 14 days.

Mr. Otto Barton reported by phone that an attempt was made to potential the well on May 25, 1964 but the pressures would not stabilize. This test was attempted by Mr. Richard Otto of Kerr-McGee and Mr. Tony Snider of Eastern Petroleum.

A 5-point test was made on Well No. 35 and a 4-point test was made on Well No. 31. A Pitot Tube test was made on

26  
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-2-

Well No. 32 since the pressure would not stabilize.

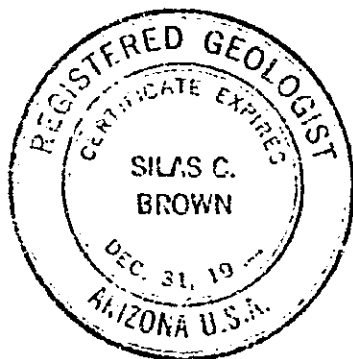
Based upon field data obtained, it is my opinion that the wells have the following potentials - absolute open flow:

1. Well No. 31 - 590 MCFG/D - Used 2" Critical Flow Prover
2. Well No. 35 - 1,570 MCFG/D - Used 2" Critical Flow Prover
3. Well No. 32 -  $\pm$ 580 MCFG/D - Used Pitot Tube

Included with this letter report are two copies of the Open Flow Potential Test Report for Wells No. 31 and 35 as calculated by Mr. Charles B. Campbell of Kerr-McGee Oil Industries, Inc. Also included are field data sheets showing data as observed in the field during the tests.

Respectfully submitted,

*Silas C. Brown*  
Silas C. Brown  
Registered Geologist



# GA WELL OPEN FLOW POTENTIAL TEST REPORT

## 4-POINT TEST

Test Initial ☒ Annual ☐ Special ☐

Field Navajo Springs Reservoir Coconino Sand Test Date May 12, 1964

Operator Eastern Petroleum Company Lease Santa Fe Well No. 35

County Apache Location C.S. 1 of Sec 27, Twp 20N, Rge 27E Completion Date May 11, 1964 Total Depth 1062 T. Pay 1052 Producing Interval 10

Producing Thru TBG. 3 1/2 Reservoir Temperature 95.1 Wellhead Temperature 98.3 CSO. Size 4-1/2 Wt/Ft. 9.50 I.D. 4.000 Set 1052

TBG. Size 3 1/2 Wt/Ft. 9.50 O.D. 4.000 I.D. 3.900 Set 1057 Gas Gravity (Separator) 0.900 Avg. Prod. Length (L) 1057 GL 951 Gas-Liquid Hydrocarbon Ratio MCF per Bbl. 951 Gravity of Liquid (API) 951

Pipeline Connection None at time of test Type Taps None

Multiple Completion (Dual or Triple) None Type production from each zone None

OBSERVED DATA									
Barometric Pressure: 11.8 psia				Flow Data $F_o = 1.510 (1 - e^{-8}) = 0.0639$					
No.	Time of Flow <del>min</del>	(Prover) (Line) <del>Size</del>	(Choke) (Orifice) Size	Press. psig	Diff. h w	Tubing Press. psig	Casing Press. psig	Flowing Temp. °F	
# 1	20	2	0.2500	105.0			105.0	69	
# 2	20	2	0.3125	103.6			103.6	68	
# 3	20	2	0.3750	101.3			101.3	67	
# 4	20	2	0.5000	95.1			95.1	65	
# 5	20	2	0.6250	86.5			86.5	67	
FLOW CALCULATIONS									
No.	Coeffi- cient (24 Hrs)	$\sqrt{\frac{h}{w}}$	Pressure psia	Flow Temp. Factor F	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>c</sub>	Rate of Flow Q MCF/D		
# 1	1.4030		116.8	0.9915	0.8165	1.0000	133		
# 2	2.1577		115.4	0.9924	0.8165	1.0000	202		
# 3	3.0697		113.1	0.9933	0.8165	1.0000	282		
# 4	5.5231		106.9	0.9952	0.8165	1.0000	480		
# 5	8.3552		98.3	0.9933	0.8165	1.0000	666		
$P_o = 118.8$ psia			PRESSURE CALCULATIONS			$P_o^2 = 14.11$			
	$\frac{P}{P_t}$ (psia)	$P_t$	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 \times 10^{-5}$	$\frac{P}{P_t}$	$\frac{P}{P_t} - \frac{P}{P_t}$	Cal. P <sub>w</sub>	$\frac{P}{P_t}$
# 1	116.8	13.64	0.201	0.040	0.003	13.64	0.47	116.8	0.98
# 2	115.4	13.32	0.304	0.093	0.006	13.33	0.78	115.5	0.97
# 3	113.1	12.79	0.426	0.181	0.012	12.80	1.31	113.1	0.95
# 4	106.9	11.43	0.725	0.526	0.034	11.46	2.65	107.1	0.90
# 5	98.3	9.66	1.006	1.012	0.065	9.73	4.36	98.6	0.83
Absolute Potential				1570	MCF/D 0.722 ( $\theta = 54.1^\circ$ )				

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the \_\_\_\_\_ of the \_\_\_\_\_ (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Witness to Test Otto C. Barton  
Kerr-Rice Oil Ind. Inc.

EASTERN PETROLEUM COMPANY

Witness to Test Henry J. Sullivan

By Henry J. Sullivan  
Signature

Test Calculated by Charles D. Campbell  
Engineer - Kerr-Rice Oil Ind. Inc.

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

Gas Well Open Flow Potential Test Report (4-Point Test)

Form No. G-1 File two copies 263

Effective \_\_\_\_\_, 19\_\_\_\_

Witness to test Philas C. Brown  
Arizona Oil & Gas Cons. Comm.

May 12, 1964  
Navajo, Arizona

EASTERN PETROLEUM CO. #35 SANTA FE

C SW $\frac{1}{4}$  Sec. 27-20N-27E, Apache Co., Ariz.

Elev: 5750 Gr., T.D. 1062, 4 $\frac{1}{2}$ " csg @ 1052  
Top Coconino - @ 1052 Net Pay  $\pm$  8'  
Estimated Pay  $\pm$  56'

Point 1

1/4" orifice	After 5 min.	- 105#	Temp.	- 69°F.
"	15 "	- 105#	"	- 69°F.
"	30 "	- 105#	"	- 69°F.

Point 2.

5/16" orifice	After 5 min.	- 103.6#	Temp.	- 69°F.
"	10 "	- 103.6#	Temp.	- 69°F.
"	15 "	- 103.6#	"	- 68°F.
"	20 "	- 103.6#	"	- 68°F.

Point 3.

3/8" orifice	After 5 min.	- 101.3#	Temp.	- 68°F.
"	11 "	- 101.3#	"	- 67°F.
"	20 "	- 101.3#	"	- 67°F.

Point 4.

1/2" orifice	After 5 min.	- 95.15#	Temp.	- 66°F.
"	15 min.	- 95.10#	"	- 66°F.
"	20 min.	- 95.10#	"	- 65°F.

Point 5.

5/8" orifice	After 5 min.	- 86.50#	Temp.	- 66°F.
"	10 "	- 86.45#	"	- 66°F.
"	15 "	- 86.50#	"	- 68°F.
"	20 "	- 86.45#	"	- 67°F.

NOTE: Used a 2" High Pressure Prover, 50" long (Called Critical Flow Prover. Also used Dead Weight Gauge.

Witnesses: Mr. Otto Barton - Kerr McGee  
Richard Otto - "  
Henry Fullop - Eastern Petr. Co.  
Silas Brown - Arizona O & G Cons. Comm.

**CLASS OF SERVICE**  
This is a **TELEGRAM** message  
unless its deferred char-  
acter is indicated by the  
proper symbol.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, President

87-1201 (4-30)

**SYMBOLS**  
DL = Day Letter  
NL = Night Letter  
LT = International  
Letter Telegram

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination.

416P PDT MAY 26 64 LB381

DB345 O AMA598 PD DUMAS TEX 26 410P CST

JOHN BAINNISTER

ARIZONA OIL & GAS COMMISSION SUITE 202 1624 WEST ADAMS ST  
PHOENIX ARIZ

OUTLINED BELOW PLEASE FIND ANALYSIS OF GAS FROM SAMPLES TAKEN  
FROM EASTERN PETROLEUM COMPANY WELLS #31 SEC 29, #32 SEC 28,  
#35 SEC 27 ALL IN T20N R27E APACHE COUNTY ARIZONA WELL #31  
ARGON .79 CO2 .89 HELIUM 8.32 NITROGEN 90.00 TOTAL PERCENTAGE  
100.00 SPECIFIC GRAVITY .9065 WELL #32 ARGON .79 CO2 .68 HELIUM  
8.34 NITROGEN 89.99 TOTAL PERCENTAGE 100.00 SPECIFIC GRAVITY  
.9063 WELL #35 ARGON .68 CO2 .90 HELIUM 8.34 NITROGEN 90.08  
TOTAL PERCENTAGE 100.00 SPECIFIC GRAVITY .9059 THIS INFORMATION  
FURNISHED AT REQUEST OF HENRY FULLOP, PRESIDENT EASTERN PETROLEUM  
COMPANY

KERR MCGEE OIL INDUSTRIES INC, OTTO BARTON SUPT OIL & GAS

**CLASS OF SERVICE**  
This is a **TELEGRAM** message  
unless its deferred char-  
acter is indicated by the  
proper symbol.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, President

87-1201 (4-30)

**SYMBOLS**  
DL = Day Letter  
NL = Night Letter  
LT = International  
Letter Telegram

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DAMA598

PRODUCTION PANHANDLE DIVISION SUNRAY TEXAS

#31 29 #32 28 #35 27 T20N R27E #31 .79 CO2 .89 8.32 90.00 100.00  
.9065 #32 .79 CO2 .68 8.34 89.99 100.00 .9063 #35 .68 CO2 .90  
8.34 90.08 100.00 .9059  
(06).



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### TEST PROCEDURE

Eastern Petroleum Company - Santa Fe No. 35, Section 27, 20N, 27E, Apache County, Arizona. Elevation 5790 feet. Original TD - 1060 feet. 4 1/2" casing set at 1052 foot ground level. Drilled 2 feet to TD of 1062 feet on May 11, 1964. Unable to drill deeper. Suspected iron in hole.

Tested May 12, 1964, with 2" Critical Flow Prover on 40" x 2" nipple. Witnesses to test: Henry Fallop and Mr. Snider for Eastern Petroleum Company, Otto Barton and Richard Otto for Kerr-McGee Oil Industries, Inc., S.C. Brown, Consultant for Arizona Oil and Gas Commission.

Test Date: SIP 107 psig. Test started 9:43 AM. Point #1, 2 x .250 orifices:

5 Minutes - Prover Pressure, 105 psig - Temperature 69 degrees  
15 Minutes - Prover Pressure, 105 psig - Temperature 69 degrees  
20 Minutes - Prover Pressure, 105 psig - Temperature 69 degrees

Point #2 - 2 x .3125 orifices:

5 Minutes - Prover Pressure, 103.6 psig - Temperature 69 degrees  
10 Minutes - Prover Pressure, 103.6 psig - Temperature 68 degrees  
15 Minutes - Prover Pressure, 103.6 psig - Temperature 68 degrees  
20 Minutes - Prover Pressure, 103.6 psig - Temperature 68 degrees

Point #3 - 2 x .375 orifices:

5 Minutes - Prover Pressure, 101.3 psig - Temperature 68 degrees  
11 Minutes - Prover Pressure, 101.3 psig - Temperature 67 degrees  
20 Minutes - Prover Pressure, 101.3 psig - Temperature 67 degrees

Point #4 - 2 x .5 orifices:

6 Minutes - Prover Pressure, 95.15 psig - Temperature 66 degrees  
15 Minutes - Prover Pressure, 95.1 psig - Temperature 66 degrees  
20 Minutes - Prover Pressure, 95.1 psig - Temperature 65 degrees

Point #5 - 2 x .625 orifices:

5 Minutes - Prover Pressure, 86.30 psig - Temperature 66 degrees  
10 Minutes - Prover Pressure, 86.45 psig - Temperature 66 degrees  
15 Minutes - Prover Pressure, 86.30 psig - Temperature 68 degrees  
20 Minutes - Prover Pressure, 86.45 psig - Temperature 67 degrees

Completed test. Flow well 3 minutes wide open. Dry.

*casing  
Ret  
@ 1052*

*TD 1062*

*263*

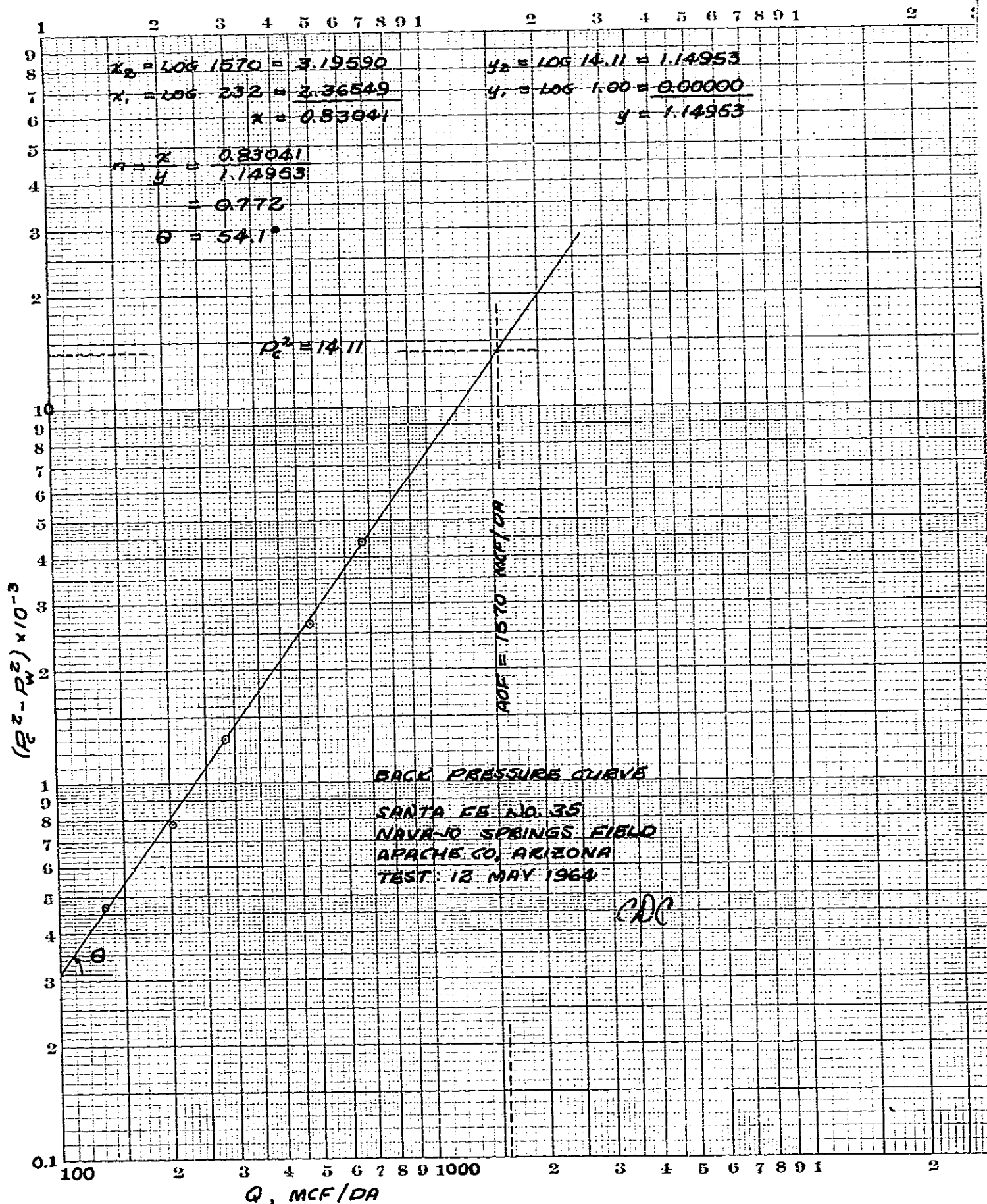
*24*



CODER BOOK COMPANY, INC. NORWOOD, MASSACHUSETTS.  
PRINTED IN U.S.A.



NO. 4223, LOGARITHMIC: 5 BY 3 1/2 INCH CYCLES.



NO. 35

SILAS C. BROWN & ASSOCIATES  
GEOLOGICAL CONSULTANTS  
P. O. BOX 1266  
SCOTTSDALE, ARIZONA

May 12, 1964

Navajo, Arizona

EASTERN PETROLEUM CO. #35 SANTA FE

NE $\frac{1}{4}$  SW $\frac{1}{4}$  Sec. 27-T20N-R27E, Apache Co., Arizona

Elev. - 5750' Gr. T.D. - 1062' 4 $\frac{1}{2}$ " Csg. @ 1052'  
Top Coconino - 1052' New Pay -  $\pm$  8' SIP - 107#  
Estimated Pay  $\pm$  56'

Point 1.  $\frac{1}{4}$ " orifice After 5 min. - 105#, Temp. - 69°F.  
" 15 min. - 105#, " - 69°F.  
" 30 min. - 105#, " - 69°F.

Point 2. 5/16" orifice After 5 min. - 103.6#, Temp. - 69°F.  
" 10 " - 103.6#, " - 68°F.  
" 15 " - 103.6#, " - 68°F.  
" 20 " - 103.6#, " - 68°F.

Point 3. 3/8" orifice After 5 min. - 101.3#, Temp. - 68°F.  
" 11 " - 101.3#, " - 67°F.  
" 20 " - 101.3#, " - 67°F.

Point 4.  $\frac{1}{2}$ " orifice After 5 min. - 95.15#, Temp. - 66°F.  
" 15 min. - 95.10#, " - 66°F.  
" 20 " - 95.10#, " - 65°F.

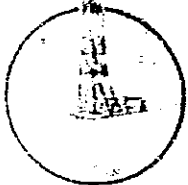
Point 5. 5/8" orifice After 5 min. - 86.50#, Temp. - 66°F.  
" 10 " - 86.45#, " - 66°F.  
" 15 " - 86.50#, " - 68°F.  
" 20 " - 86.45#, " - 67°F.

NOTE: Used a 2" High Pressure Prover, 50" long. (Called a Critical Flow Prover). Also used Dead Weight Gauge.

WITNESSES: Otto Barton - Kerr McGee Oil Industries, Inc.  
Richard Otto - " " " "  
Henry Fullop - Eastern Petroleum Company.  
Silas Brown - Arizona Oil & Gas Conservation Commission.

*Silas C. Brown*  
Silas C. Brown

DENVER OFFICE 520 FIRST NATIONAL BANK BUILDING



EASTERN PETROLEUM CO.  
EASTERN DRILLING, INC.

TELEPHONE 38-24104 - P O BOX 281 - CARMEL ILLINOIS

April 6, 1964

Mr. John Petty  
Oil & Gas Conservation Commission  
1624 West Adams  
Phoenix 7, Arizona

Dear Mr. Petty:

I have enclosed completion reports of the following wells in Apache County:

Eastern-Santa Fe #31 - SE Sec. 29-20N-27E  
Eastern-Santa Fe #32 - SW Sec. 28-20N-27E  
Eastern-Santa Fe #35 - SW Sec. 27-20N-27E ✓

These wells will be included in a proposed unit, and I believe a bit of comment is necessary to a better understanding of their present status.

SF #31 - Set 2 7/8" @ 1049' - tested 146 MCF through orifice - made 3 attempts to log - hole bridged at various intervals - on 4th attempt was able to get tool in hole and run induction log - ran cement bond log - poor cement job - perforated w/4 holes 1036-37 - received 120' water fill up - attempted to washover 2 7/8" w/4 1/2" pipe and failed. Unless we can correct this condition application to drill a new hole will be made. Well presently designated "Incomplete".

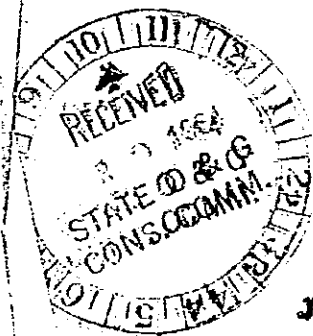
SF #32 - Pipe has not been perforated

SF #35 - No log run - lost circulation @ 1062' - no Coconino samples at this interval - squeezed 7 times w/zeogel; set 4 1/2" @ 1062' - expect to deepen hole - casing not perforated. Did receive a fair blow of gas estimated from 50-90 MCF.

Yours very truly,

EASTERN PETROLEUM COMPANY

J. M. Edwards



JME:mf

Encls.

cc: Santa Fe Pacific Railroad Co.

# APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐

NAME OF COMPANY OR OPERATOR **Eastern Petroleum Company** DATE **1-10-64**

Box 291 Carmi Illinois  
Address City State

## DESCRIPTION OF WELL AND LEASE

Name of lease <b>Eastern-Santa Fe Fee</b>	Well number <b>35</b>	Elevation (ground) <b>5750</b>
Well location (give footage from section lines) <b>1650' N of S.L. &amp; 1650' E. of W.L.</b>		Section--township--range or block & survey <b>27-20N-27E</b>
Field & reservoir (If wildcat, so state) <b>Navajo Springs</b>	County <b>Apache</b>	
Distance, in miles, and direction from nearest town or post office <b>Approx. 5 miles SE of Navajo</b>		
Nearest distance from proposed location to property or lease line: <b>1650'</b> feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: -- feet	
Proposed depth: <b>1200</b>	Rotary or cable tools <b>Rotary</b>	Approx. date work will start <b>1-4-64</b>
Number of acres in lease: <b>640</b>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <b>One</b>	
If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address

Status of bond

**Blanket**

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

**Permit authroized via telephone**

\* Fill in Proposed Casing Progrzm on other side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **Secretary** of the **Eastern Petroleum Company** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date **1-10-64**

Signature **J. N. Edwards**

Permit Number: **263**  
Approval Date: **1-14-64**  
Approved By: **R. K. Walden**  
Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.  
See Instruction on Reverse Side of Form

STATE OF ARIZONA OIL & GAS  
CONSERVATION COMMISSION

Application to Drill, Deepen or Plug Back

Form No. P-1

File two copies

Effective Feb. 28, 1962.

# INSTRUCTIONS

## READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

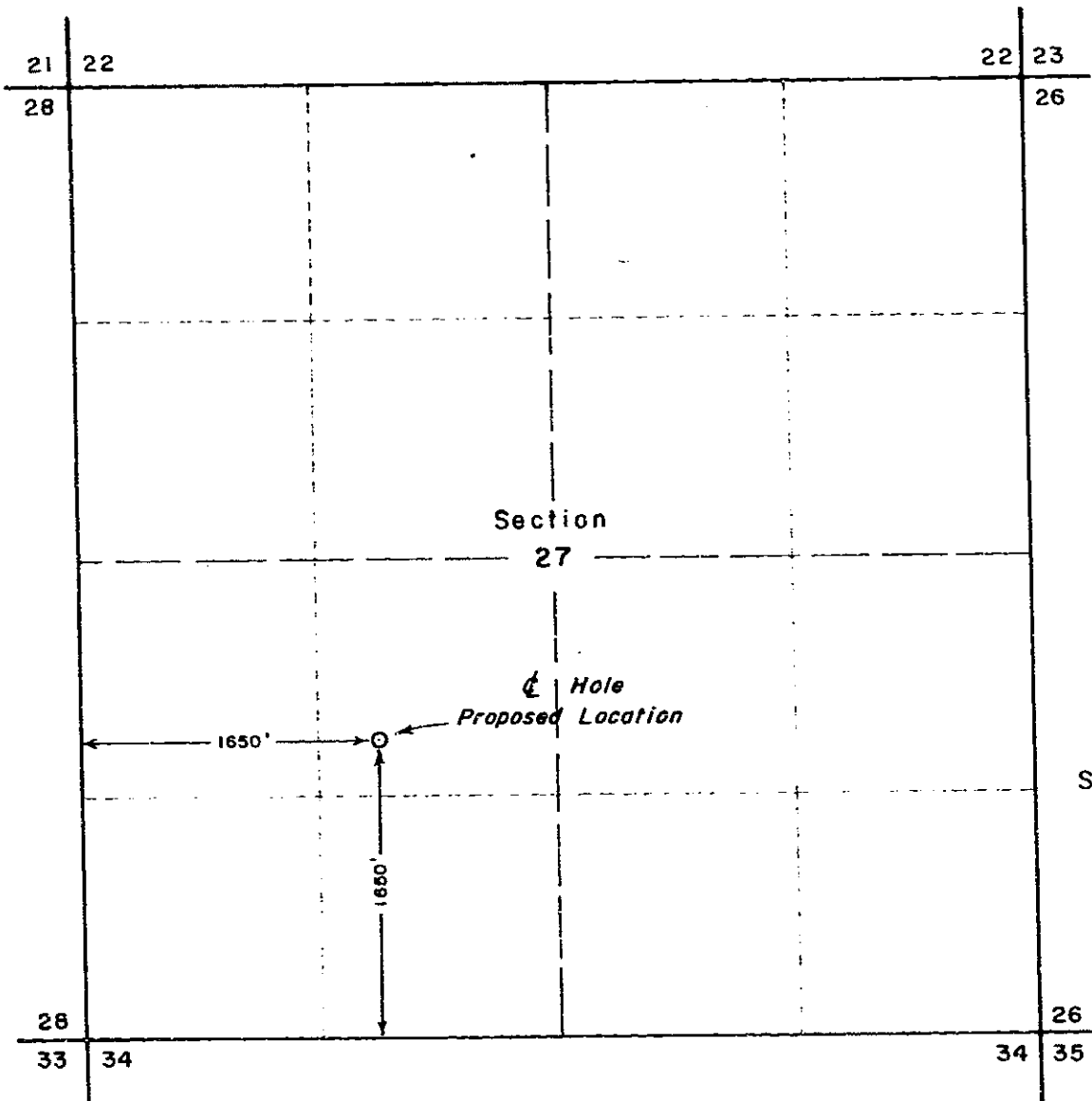
In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

## PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
Surface 8 5/8		H.40	0	90	90	25



Scale: 1" = 1000'

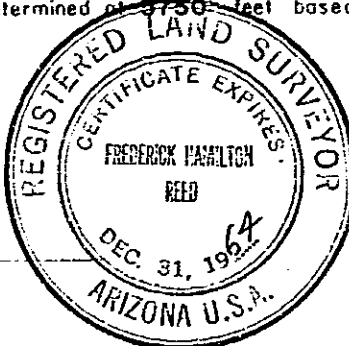
**WELL LOCATION: Eastern Petroleum - Santa Fe # 35**

Located 1650 feet North of the South line and 1650 feet East of the West line of Section 27,  
 Township 20 North, Range 27 East, Gila & Salt River Meridian  
 Apache Co., Arizona  
 Existing ground elevation determined at 9750 feet based on adjoining well locations.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

263 *Frederick H. Reed*

FREDERICK H. REED  
 Registered Land Surveyor  
 State of Arizona # 5313



**EASTERN PETROLEUM**

**WELL LOCATION PLAT**  
 Sec. 27, T. 20 N., R. 27 E.  
 Apache Co., Arizona

E. M. CLARK & ASSOC.  
 Durango, Colorado

DATE Dec. 30, 1963  
 FILE NO 63081

324



OFFICE OF  
**Oil and Gas Conservation Commission**  
STATE OF ARIZONA  
1645 WEST JEFFERSON, SUITE 420  
PHOENIX, ARIZONA 85007  
PHONE: (602) 271-5161

June 26, 1978

United States Fidelity and  
Guaranty Company  
Surety Department  
Foster and Messick, Managers  
456 N. Meridian Street  
Indianapolis, Indiana 46204

Re: Eastern Petroleum Company, Carmi, Illinois  
Bond No. 27716 13 3983 65; \$25,000

Gentlemen:

Eastern Petroleum Company has complied with the rules and regulations of the Oil and Gas Conservation Commission of the State of Arizona.

This letter is to authorize your release of Eastern Petroleum Company's above referenced bond.

Very truly yours,

W. E. Allen  
Director  
Enforcement Section

WEA/vb

cc - Mr. Henry Fullop

STABILITY UNDER THIS BOND MAY NOT  
BE TERMINATED WITHOUT WRITTEN  
PERMISSION OF THIS COMMISSION.

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. 27716-13-  
3983-65-

That we: EASTERN PETROLEUM COMPANY

of the County of: White in the State of: Illinois

as principal, UNITED STATES FIDELITY AND GUARANTY COMPANY  
and

of Baltimore, Maryland

AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to wit:

(May be used as blanket bond or for single well)

**CANCELLED**

DATE 6-26-78

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of TWENTY FIVE THOUSAND AND NO/100 DOLLARS (\$25,000.00)

ATTORNEY-IN-FACT AFFIDAVIT

STATE OR COMMONWEALTH OF Indiana }  
COUNTY OR CITY OF Marion } ss:

Before me, a Notary Public, personally came Gary R. Peterson known to me, and known to be the Attorney-in-Fact of United States Fidelity and Guaranty Company, a Maryland Corporation, which executed the attached bond as surety, who deposed and said that his signature and the corporate seal of said United States Fidelity and Guaranty Company were affixed by order and authority of said Company's Board of Directors, and that the execution of the attached bond is the free act and deed of United States Fidelity and Guaranty Company.

Given under my hand and seal this 2nd day of November, 1965

DONALD RAY FOWLER  
My commission expires May 4, 1969

Donald R. Fowler  
Notary Public.

My Commission expires

Jud. 876 (9-57)

By: John L. Ginnister

Form No. 2

File Two Copies

Permit No.



Operator Eastern Petroleum Co.

Bond Company U.S. F & G Co Amount \$25,000

Bond No. not shown Date Approved 11-12-65

**27716-13-3983-65**

Permits covered by this bond:

<del>48</del>	<del>348</del> shut-in	<del>579</del>
<del>80</del> producing	<del>365</del>	<u>584</u>
<del>88</del> producing	<del>366</del> Not Drilled	<u>586</u>
<del>107</del>	<del>464</del>	<u>587</u>
<del>108</del>	<del>504</del>	<u>592</u>
<del>109</del>	<del>505</del>	<u>594</u>
<del>150</del>	<del>523</del>	<u>595</u>
<del>152</del>	<del>536</del>	<u>596</u>
<del>155</del> repaired 10/5/61	<del>537</del>	<u>599</u>
<del>188</del>	<del>547</del>	<u>600</u>
<del>194</del> producing	<del>560</del>	<u>601</u>
<del>206</del> shut-in	<del>565</del>	
<del>209</del>	<del>567</del>	
<del>218</del>	<del>568</del>	
<del>236</del> shut-in	<del>569</del>	
<del>237</del>	<del>570</del>	
<del>239</del>	<del>576</del>	
<del>240</del>	<del>577</del>	
<del>234</del>	<del>578</del>	
<del>237</del>	<del>579</del>	
<del>268</del>	<del>580</del>	
<del>284</del>	<del>581</del>	
<del>276</del>	<del>582</del>	
<del>250</del>	<del>583</del>	
<del>282</del>	<del>584</del>	
<del>255</del> shut-in	<del>585</del>	
<del>258</del> shut-in	<del>586</del>	
<del>259</del>	<del>587</del>	
<del>273</del>	<del>588</del>	
<del>263</del> shut-in Prod	<del>589</del>	
<del>264</del>	<del>590</del>	
<del>257</del>	<del>591</del>	
<del>284</del>	<del>592</del>	
<del>207</del>	<del>593</del>	
<del>207</del>	<del>594</del>	
<del>251</del>	<del>595</del>	
<del>252</del>	<del>596</del>	
<del>269</del>	<del>597</del>	
<del>81</del> producing	<del>598</del>	
<del>296</del>	<del>599</del>	
<del>296</del>	<del>600</del>	

**CANCELLED**

DATE 6-26-78

Received 1800 - 11-10-65  
By John J. Smith



OFFICE OF  
**Oil and Gas Conservation Commission**  
STATE OF ARIZONA

8686 NORTH CENTRAL, SUITE 106  
PHOENIX, ARIZONA 85020  
PHONE: (602) 271-5161

April 19, 1977

Mr. Warren E. Richardson  
Kerr-McGee Corporation  
Kerr-McGee Center  
Oklahoma City, Oklahoma 73125

Dr. C. F. Swain  
Crest Oil Company  
Box 57  
Alton, Illinois 62002

Mr. J. F. Schlafly  
Crest Oil Company  
Box 57  
Alton, Illinois 62002

Re: Navajo Springs Unit, Apache County, Arizona

Gentlemen:

You are aware that Kerr-McGee Corporation suspended operations on their helium extraction plant located at Navajo, Arizona in February, 1976. This plant was supplied with raw helium from wells in the Pinta Dome Unit and also from two wells in the Navajo Springs Unit, namely: Eastern Petroleum Company's Santa Fe No. 13 located in the NE/4 SW/4 Section 31, T20N, R27E, and Kerr-McGee Barfoot No. 1 located in the NE/4 SW/4 Section 32, T20N, R27E.

Not only has Kerr-McGee Corporation suspended operations of its extraction plant, it has recently plugged all the remaining wells in the Pinta Dome Unit.

Records of the Oil and Gas Commission indicate there are ten wells in the Navajo Springs Unit that are classified as shut in helium wells. Only a few of these wells ever produced or were ever connected to the Kerr-McGee plant or the plant formerly operated by Western Helium.

Mr. Warren E. Richardson  
Dr. C. F. Swain  
Mr. J. F. Schlafly  
April 19, 1977  
Page 2

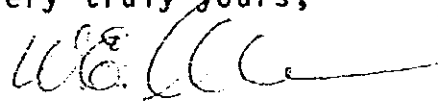
In order to protect the fresh water zones in this area from any possibility of contamination and because there is no market now or in the foreseeable future for any raw helium gas that may remain within the Navajo Springs Unit, Coconino Formation, it is the opinion of this Commission that all remaining unplugged wells in this unit be properly plugged and abandoned.

Mr. Henry Fullop with Eastern Petroleum Company, the operator of the Navajo Springs Unit, has been advised of the Commission's position on this matter. He was first notified by letter and, more recently, by long distance telephone. A response to the letter was never received. Mr. Fullop did indicate by telephone that, at the present time, it would pose a severe financial strain on him to plug these wells.

Unless the Commission can receive some positive assurance within 60 days from the date of this letter that the remaining shut in wells in the Navajo Springs Unit will be properly plugged and abandoned, the Commission will find it necessary to request the bonding company to fulfill their obligations and plug the subject wells.

This letter is addressed to you only for the purpose of acquainting you, as working interest owners in the unit, with the situation as it presently exists and also to inform you of the Commission's position.

Very truly yours,

  
William E. Allen  
Director  
Enforcement Section

WEA/vb

cc - Mr. Henry Fullop  
Eastern Petroleum Company



OFFICE OF  
**Oil and Gas Conservation Commission**  
STATE OF ARIZONA

100 NORTH 7TH AVE.  
PHOENIX, ARIZONA 85013  
PHONE: (602) 271-5161

8686 N. CENTRAL, SUITE 105  
PHOENIX, ARIZONA 85020

November 24, 1975

Mr. John Davidson  
Kerr-McGee Corporation  
P. O. Box 250  
Amarillo, Texas 79105

Dear Mr. Davidson:

As you requested, we are enclosing a supply of Designation of Operator forms.

We suggest that prior to your assuming operation of Eastern Petroleum Corporation's Santa Fe #13 and Barfoot #1, within the Navajo Springs Coconino Gas Unit, you review the unitization agreement. We would especially call your attention to Articles #8, 10, 13, 23 and 24 of this agreement.

If we can be of further service, please advise.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/1

Encls.

cc: Mr. Henry Fullop

Mr. J. N. Edwards

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EASTERN PETROLEUM CO.  
EASTERN DRILLING, INC.

TELEPHONE (618) 282-4000 P.O. BOX 2911 CARME, ILLINOIS 62621

September 10, 1974

Mr. W. E. Allen  
Oil & Gas Conservation Comm.  
4515 North 7th Avenue  
Phoenix, Arizona 85013

Re: Navajo Springs Unit

Dear Mr. Allen:

Your letter of September 9 requested that we submit Form 9 for two wells, Crest-Santa Fe #2, Sec. 33-20N-27E and Kiva #1, Sec. 13-20N-28E.

Yesterday in your office I pencilled in an application for Kiva #1.

Crest #2 is in the Navajo Springs Unit along with these shut-in wells:

Santa Fe #14	-	Section 5-19-27	206
Santa Fe #17	-	Section 4-19-27	236
Crest #7	-	Section 6-19-27	204
Santa Fe #31	-	Section 29-20-27	255
Santa Fe #32	-	Section 28-20-27	258
Santa Fe #35	-	Section 27-20-27	263

As Unit Operator we feel it our obligation to seek approval of the various unit owners before proceeding to plug. You will recall that Nos. 14, 17 and 35 produced about 154,000 MCF before Western Helium Corporation shut down. The best well is #17. At this time it is not known whether Kerr would want to produce it.

I am notifying the several owners today of the Commission's request.

Yours very truly,

EASTERN PETROLEUM COMPANY

*J. N. Edwards*  
J. N. Edwards

JNE:sjn

cc: Mr. Harold E. Uhrig  
Foster & Messick, Mgrs.  
456 N. Meridian Street  
Indianapolis, Indiana 46209

RECEIVED

SEP 18 1974



EASTERN PETROLEUM CO.  
EASTERN DRILLING, INC.

TELEPHONE (818) 382-4104 - P. O. BOX 291 - CARMEL, ILLINOIS 62821

September 10, 1974

Kerr-McGee Corporation ✓  
Kerr-McGee Center  
Oklahoma City, Oklahoma 73102  
Attn: John Fisher

Crest Oil Company  
P. O. Box 57  
Alton, Illinois 62002

Re: Navajo Springs Unit  
Shut-in Wells

Mr. J. F. Schlafly  
First Nat'l. Bank Bldg.  
Alton, Illinois 62002

Estate of G. R. Barfoot  
Ehmann, Olsen & Lane  
2500 First Fed. Savings Bldg.  
3003 N. Central Avenue  
Phoenix, Arizona 85013

Gentlemen:

There are seven shut-in wells in the Unit; Eastern-Santa Fe Nos. 14, 17, 31, 32 and 35 and Crest-Santa Fe Nos. 2 and 7.

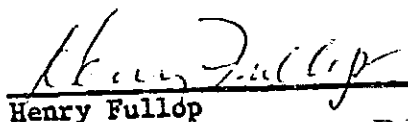
We have been advised by the Oil & Gas Conservation Commission that unless these wells are activated and produced the Commission will of necessity order all wells plugged and abandoned. The Commission is pressing this issue very hard. The best well, No. 17, produced around 70,000 MCF in 1972 and 1973.

On August 15 we notified the Commission that it was possible these wells may be required to sustain the normal take in the future. However, if arrangements are not made to produce it is our opinion that we will be forced to plug them.

Before proceeding further with the Commission we need to know your decision. Please give us your views or decision within seven days of receipt of this letter.

Yours very truly,

EASTERN PETROLEUM COMPANY  
Unit Operator

  
Henry Fullöp

RECEIVED

SEP 12 1974

O & G Cons. Comm.

HF:sjn

263



OFFICE OF  
**Oil and Gas Conservation Commission**  
STATE OF ARIZONA  
4515 NORTH 7TH AVE.  
PHOENIX, ARIZONA 85013  
PHONE: (602) 271-5161

June 21, 1974

CERTIFIED MAIL

Mr. Henry Fullop  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Navajo Springs Area

Dear Mr. Fullop:

This Commission has requested several times to be advised of your plans for further operations on your unplugged wells in the Navajo Springs area.

Mr. Edwards submitted some Sundry Notices and Reports on Wells, Form 25, indicating that you planned to plug some of the wells. Some others were to be transferred to Dan Schwetz. Still others, some of which have never produced commercially, apparently were to maintain their present status.

You are aware that several wells in this area have never indicated any ability to produce and others that are carried as shut-in helium wells have never produced commercially and no attempt to produce some of these wells was ever made.

At a meeting of the Commission on this date we were instructed to direct you to properly plug, by August 31, 1974, all wells in this area not now producing. Prior to plugging any well, the plugging program must be approved by the Commission and all operations relating to the plugging and abandonment will be witnessed by a member of the Commission staff.

Within this time frame, this Commission will consider any feasible plan that you might have to place whatever wells that are capable of producing back on production.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rlb

cc - J. N. Edwards and U.S.F. & G.



OFFICE OF  
**Oil and Gas Conservation Commission**  
STATE OF ARIZONA  
4515 NORTH 7TH AVE.  
PHOENIX, ARIZONA 85013  
PHONE: (602) 271-5161

April 12, 1974

CERTIFIED MAIL

Mr. Henry Fullop  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Navajo Springs Area

Dear Mr. Fullop:

We have received Mr. Edward's letter dated March 12, 1974 together with Form 25, Sundry Notice and Reports, on 16 wells in the Navajo Springs area. We are aware that a number of your wells are in the Navajo Springs Coconino Unit. According to our records, several of the wells that are in the Unit have never produced except during testing and are being carried as shut-in helium wells. A number of wells outside the Unit have never produced, and your completion reports indicate the production on the potential test to be zero or TSM. Other wells have been taken off production for various reasons.

The possibility of some of these wells ever being produced commercially again appears negligible. As you know, Western Helium has not taken gas from your wells since December 31, 1973. This company is now in the process of dismantling and moving their plant out of the area. There is a possibility that Kerr-McGee might arrange to take gas from some of the wells in the Navajo Springs Unit as they are now doing from your Santa Fe No. 13 and Barfoot.

It is the opinion of this Commission that all non-commercial wells in the Navajo Springs area, whether in the Unit or not, should be permanently plugged and abandoned as quickly as possible. These wells would include, within the Navajo Springs Coconino Unit, the Crest Santa Fe No. 2, Santa Fe Nos. 31 and 32, and the Reese No. 2. No production has been reported from any of these wells. Also to be plugged should be your Ancon Santa Fe Nos. 21 and 21-1A, Connelly KM State No. 1, Merde No. 1 and all the non-producers that have been drilled within the past three years. Your Merde No. 2 must be plugged immediately. The hole in the casing at approximately 750' has never been repaired and the well is flowing water. Also your Dreck No. 1 has been reported plugged and abandoned, a copy of your plugging report is attached. It is possible that this well has been partially plugged, however there is definitely no plug in the top of the casing and fluid is several hundred feet from the surface. The dry hole marker was never installed. It is on

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Mr. Henry Fullop  
April 12, 1974  
Page 2

location but the casing had a bucket inverted over the open end. The hole you drilled on the original location for the Chambers No. 1 for a "water well" is open with wire line and other junk around the open hole. Mr. Tom Pelton, the owner or holder of the surface rights of the land on which the two Chamber holes are located has expressed the desire to assume responsibility of both the holes for water wells. Mr. Pelton's address is P. O. Box 7, Sanders, Arizona 86512, phone: (602) 688-2930. Our Form No. 24, when executed by Mr. Pelton, will satisfy our requirements. Also Wayne Wallace has some interest in some of the holes on his place for use as water wells.

Recently we found a well some 700' + in a northerly direction of the Merde No. 2, a copy of a photograph is attached. We have no records of a well being drilled at this location. Any information that you could give us on this well would be appreciated. It is being used as a water well.

Either Mr. Bannister or myself will be happy to discuss the above mentioned situation with you. However, we are determined to have the existing conditions in the area brought into complete compliance with the rules and regulations of the Oil and Gas Conservation Commission in the very near future.

We would appreciate your thoughts on the above.

Very truly yours,



W. E. Allen, Director  
Enforcement Section

WEA/rlb

Encs.

cc John Fisher, Kerr-McGee, Oklahoma  
Richard J. Gasdaska, Western Helium, Pennsylvania  
C. F. Swain, Crest Oil, Illinois  
Jess Edwards, Eastern, Illinois  
U.S.F. &G., Indiana

263



OFFICE OF  
**Oil and Gas Conservation Commission**  
STATE OF ARIZONA  
4515 NORTH 7TH AVE.  
PHOENIX, ARIZONA 85013  
PHONE: (602) 271-5161

September 18, 1973

Mr. Robert Fullop  
Eastern Petroleum Company  
P. O. Box 226  
Farmington, New Mexico 87401

Dear Mr. Fullop:

Will you please supply this Commission with any information that you might have regarding the recoverable reserves in the Navajo Springs Field?

This information will be considered confidential if you so desire.

Thank you for your cooperation.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rib

June 11, 1971

Mr. J. N. Edwards  
Eastern Petroleum Corporation  
P. O. Box 1338  
Scottsdale, Arizona 85052

Re: Wells formerly producing into Western Helium's helium extrac-  
tion plant.

Dear Mr. Edwards:

As soon as practicable please furnish this office with copies of the production report for the above referenced wells. Since Western Helium has temporarily shut down this plant necessitating the closing in of your wells, please furnish us with Form 25, Summary Notices and Reports on Wells, indicating your wells shut in awaiting market. We need this information in order to document our files.

Thank you for your cooperation.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA:jd  
Enc.  
cc: Mr. Henry Fullop, Carai, Illinois

234  
471  
537  
238  
194  
206  
236  
263

263

March 10, 1971

Dr. C. F. Swain  
Crest Oil Company  
P. O. Box 57  
Alton, Illinois 62002

Monthly Producer's Report

Re: Eastern #14 Santa Fe  
SE/4 NW/4 Sec. 5-T19N-R27E  
Apache County  
Our File #206

Eastern #17 Santa Fe  
SW/4 NW/4 Sec. 4-T19N-R27E  
Apache County  
Our File #206

Eastern #35 Santa Fe Fee  
NW/4 SW/4 Sec. 27-T20N-R27E  
Apache County  
Our File #263 ✓

Dear Dr. Swain:

Thank you for your letter of March 5, 1971, which has cleared up the misunderstanding that I had regarding production from the above referenced wells.

Since Eastern is the designated operator for the Navajo Springs Coconino Gas Unit, it will not be necessary for you to submit a Monthly Producer's Report.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA:jd

C. F. SWAIN

**Crest**  
**OIL COMPANY**

P. O. BOX 57  
ALTON, ILLINOIS 62002

AREA CODE 618-462-5346

RECEIVED

MAR 09 1971

O & G CONS. COMM.

March 5, 1971

W. E. Allen, Director  
Enforcement Section  
Oil & Gas Conservation Commission  
4515 North 7th Avenue  
Phoenix, Arizona 85013

Re: Navajo Springs Unit Wells #14, 17 & 35  
Santa Fe, Apache Co., Ariz, Monthly  
Producers Report

Dear Mr. Allen:

Please refer to your letter written to me dated March 2, 1971 in which you are confused because of the footnote on Crest's Monthly Producers Report; I will try to clarify.

Unit Wells captioned are the wells designated by Eastern Petroleum Company, Unit Operator, from which the Crest-Schlaflly percentage of ownership of the Unit gas is taken and sold to Western Helium Corporation. Thus all the gas produced from these wells belongs to Crest & Schlaflly, and likewise all the gas Purchased from these wells is purchased by Western Helium Corporation to the account of Crest and Schlaflly. Thus the Crest Monthly Producer Report and the Eastern report will be identical. Likewise the Purchase report by Western Helium Corporation will show an identical quantity purchased as that shown by Crest and Eastern as produced and sold.

This is why I wrote you earlier about the necessity for Crest to file the Form (Monthly Producers Report), as it is simply a duplication of the Eastern Petroleum report and the Western Helium report.

If you think it necessary for Crest as an Operator to continue filing the report, I will be glad to do so, but will eliminate the confusing footnote. Please advise if further information is needed, and if we should continue to report.

Sincerely yours,

*C. F. Swain*  
C. F. Swain  
Crest Oil Company

Copy: Eastern Petroleum  
Carmi, Ill.

263

March 2, 1971

Dr. C. F. Swain  
Crest Oil Company  
P. O. Box 57  
Alton, Illinois 62002

Monthly Producer's Report

Re: Eastern #14 Santa Fe  
SE/4 NW/4 Sec. 5-T19N-R27E  
Apache County  
Our File #206

Eastern #17 Santa Fe  
SW/4 NW/4 Sec. 4-T19N-R27E  
Apache County  
Our File #236

Eastern #35 Santa Fe Fee  
NE/4 SW/4 Sec. 27-T20N-R27E  
Apache County  
Our File #263 ✓

Dear Dr. Swain:

Your footnote on the above referenced Monthly Producer's Report leaves us a little confused. You state that the production shown represents the Crest-Schlaflly percentage of Unit production plus a portion of the "back gas" due them. This indicates to us that the 4,941 MCF that you report as produced is only your percentage of the actual production from these wells. Eastern Petroleum on their Monthly Producer's Report indicates the same amount of production from the three wells as does your report. Western Helium's Gas Purchaser's Monthly Report indicates that they purchased a total of 4,941 MCF gas from the above three wells.

It would be appreciated if you would clarify this situation for us.

Very truly yours,

W. E. Allan, Director  
Enforcement Section

WEA:jld

December 9, 1970

Mr. Henry Fullop  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Eastern Santa Fe Fee #35  
NE/4 SW/4 Sec. 27-T20N-R27E  
Apache County  
Our File #263 ✓

Dear Mr. Fullop:

On November 24, 1970, we requested by letter to Mr. Edwards that he submit Form 25, Sundry Notices and Reports on Wells, on the above referenced well for the months of October and November, 1970. As of this date we have received nothing from Mr. Edwards concerning this well. We would appreciate your seeing that these reports that are required monthly be submitted to this office immediately.

Very truly yours,

W. E. Allen  
Director, Enforcement Section

WEArjd

cc: Mr. J. N. Edwards, Carmi, Illinois  
Mr. J. N. Edwards, Scottsdale, Arizona

November 24, 1970

Mr. J. N. Edwards  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Eastern Santa Fe #35  
NE/4 SW/4 Section 27-T20N-R27E  
Apache County  
Our File #263 ✓

Dear Mr. Edwards:

As of this date we have not received Form 25, Sundry Notices and Reports on Wells, on the above referenced well for the month of October, 1970. Also, the report for November will be due very shortly. Will you please have these forms prepared and forwarded to this office immediately.

Very truly yours,

W. E. Allen  
Director, Enforcement Section

WEA:jd

cc: J. N. Edwards, Scottsdale, Az.



October 14, 1970

Mr. J. N. Edwards  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Eastern Santa Fe #35  
NE/4 SW/4 Section 27-T20N-R27E  
Apache County  
Our File #263 ✓

Dear Mr. Edwards:

As of this date we have not received Form 25, Sundry Notices and Reports on Wells, on the above referenced well. Will you please have this form prepared and forwarded to this office immediately.

Very truly yours,

W. E. Allen  
Director, Enforcement Section

WEA:jd  
cc: Mr. J. N. Edwards  
Scottsdale, Arizona

July 8, 1970

Mr. J. N. Edwards  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Eastern #21 Ancon Santa Fe	Eastern Santa Fe Fee #35
SE/4 NW/4 Sec.31-T20N-R28E	NE/4 SW/4 Sec.27-T20N-R27E
Apache County	Apache County
Our File #234	Our File #263 ✓

Dear Mr. Edwards:

As of this date we haven't received Form 25, Sundry Notice, for the month of June on the subject wells. As you know, these reports are needed each month while the wells are shut in.

It would be appreciated if you would have these reports mailed to this office as quickly as possible after the end of each month.

Your cooperation in furnishing the required information to this office will be appreciated.

Very truly yours,

W. E. Allen  
Director of Enforcement Section

WEA:jd  
Enc.

May 13, 1970

Personal

Mr. Henry Fullop  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Eastern #21 Ancon Santa Fe	Eastern Santa Fe Fee #35
SE/4 NW/4 Sec. 31-T20N-R28E	NE/4 SW/4 Sec. 27-T20N-R27E
Apache County, Arizona	Apache County, Arizona
Our File #234	Our File #263 ✓

Dear Hank:

We have recently tried several times to get Jess to file our Form 25 on the two captioned wells. So far, no luck. Will you please see that these forms come in immediately. As you are aware, we must keep the paperwork on our files up to date in case we are ever questioned by the Commissioners. I realize this is frequently a hardship; however, it is something that must be done. Please see that these forms are filed immediately. Thanks for your cooperation.

Sincerely,

John Bannister  
Executive Secretary

JB:jd  
Enc.

April 21, 1970

Mr. J. N. Edwards  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Eastern Santa Fe #35  
T20N, R27E, G & SRM  
Sec. 27: NE/4 SW/4  
Apache County  
Our File #263 ✓

Eastern #21 Ancon Santa Fe  
T20N, R28E, G & SRM  
Sec. 31: SE/4 NW/4  
Apache County  
Our File #234

Dear Jess:

Again I must request that you submit Form 25's on these two wells. We have received no reports on the captioned wells from you since March 11. Please bring Eastern immediately into compliance with these reporting obligations.

Sincerely,

John Bannister  
Executive Secretary

JB:jd  
Enc.

February 25, 1970

Mr. J. N. Edwards  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois

Re: Eastern Santa Fe Fee #35  
T20N, R27E, G & SRM  
Sec. 27: NE/4 SW/4  
Apache County  
Our File #263 ✓

Eastern #21 Ancon Santa Fe  
T20N, R28E, G & SRM  
Sec. 31: SE/4 NW/4  
Apache County  
Our File #234

Dear Mr. Edwards:

This is to again remind you that if the captioned wells are still shut in you are required to submit a Form 25 at the end of each month stating this status and advising of future plans. As this form is required monthly for each well that is shut in there should be no need to remind you each time concerning this matter.

Sincerely,

John Bannister  
Executive Secretary

jd  
Enc.

X-Chicago  
X-2341

December 26, 1969

Mr. J. N. Edwards  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Eastern Santa Fe Fee #35  
T20N, R27E, G & SRM  
Sec. 27: NE/4 SW/4  
Apache County  
Permit #263

Eastern #21 Ancon Santa Fe  
T20N, R28E, G & SRM  
Sec. 31: SE/4 NW/4  
Apache County  
Permit #234

Dear Mr. Edwards:

We note that on the Monthly Producers Reports you have indicated there has been no production on the captioned wells for the past several months. We assume, therefore, that these wells are shut in. As long as these wells remain shut in you are required to submit a monthly Sundry Notice to this office stating this status and advising of future plans.

Sincerely,

John Bannister  
Executive Secretary

jd  
Enc.

C. F. SWAIN

POST  
OIL COMPANY

P. O. BOX 57  
ALTON, ILLINOIS 62002

AREA CODE 618 462 5346

December 10, 1969

John Bannister, Exec. Secretary  
Oil & Gas Conservation Commission  
1624 West Adams, Rm. 202  
Phoenix, Arizona 85007

Dear John:

Even though every one knows the Arizona Helium Corporation plant has been shut down, I thought you might prefer to have the Form No. 10 filled out for your files, so I am listing them all as shut-in with no gas produced nor sold.

I will continue to send the Form 10 unless you advise me otherwise.

Thank you for your attention to the releasing of the Bonds on the Crest-Helium and the Crest Spurlock #1.

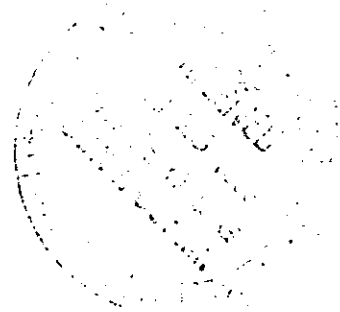
With best wishes for a joyful Holiday Season,

Sincerely yours,



C. F. Swain  
Crest Oil Company

263



X-Chloro  
X-Lambert

July 18, 1969

Mr. J. H. Edwards  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Eastern Santa Fe Fee #13  
T20N, R27E, G & SRM  
Sec. 31: NE/4 SW/4  
Apache County  
Permit #194 X

Kerr-McGee Barfoot State #1  
T20N, R27E, G & SRM  
Sec. 32: NE/4 SW/4  
Apache County  
Permit #238 X

Eastern Santa Fe Fee #35  
T20N, R27E, G & SRM  
Sec. 27: NE/4 SW/4  
Apache County  
Permit #263

Dear Mr. Edwards:

By this date we have received Production Reports from all of the companies except yours. Please furnish us the Monthly Producer's Report, Form 16, covering the captioned wells. We will appreciate your help in getting the Monthly Production Report compiled and published.

Yours truly,

James A. Lambert  
Administrative Assistant

JAL:jjf



June 5, 1969

Mr. J. N. Edwards  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Navajo Springs Unit Wells

Dear Mr. Edwards:

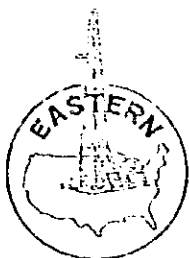
This letter constitutes permission from this Commission  
to suspend the annual testing for the captioned wells  
as provided by Rule 401 during June, 1969.

Sincerely,

John Bannister  
Executive Secretary

JAL:jf

cc: Mr. Henry Fullop, Eastern Petroleum Company



EASTERN PETROLEUM CO.  
EASTERN DRILLING, INC.

TELEPHONE 56 2201 • P. O. BOX 281 • CARMEL, ILLINOIS

June 3, 1969

Mr. John Bannister  
Oil & Gas Conservation Comm.  
1624 West Adams, Room 202  
Phoenix, Arizona 85007

Re: Capacity Tests of Gas Wells

Dear Mr. Bannister:

Reference is made to Mr. Lambert's letter of May 22 relative to annual testing of gas wells under Rule 401.

You will recall that last year this requirement was waived for Kerr-McGee's Pinta Dome Unit for various reasons and for Navajo Springs. Please refer to my letter of July 5, 1968 and yours of June 21.

Is there any particular reason why this cannot be waived this year. Please advise at an early date.

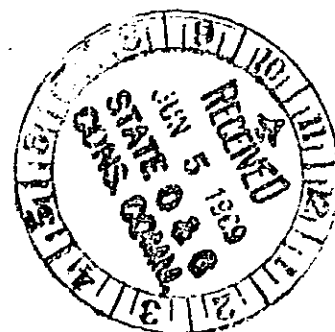
Didn't take long for you to get the Corporation Commission on the ball. Thanks.

Yours very truly,

EASTERN PETROLEUM COMPANY

*J. N. Edwards*  
J. N. Edwards

JNE:sjn



X- WAVAJO  
Springs

OIL COMPANY

May 21, 1969

James A. Lambert, Adm Asst  
Oil and Gas Conservation Commission  
1624 W. Adams Rm 202  
Phoenix, Arizona 85007

Re: Filing of Form #16, covering 1st production  
To Arizona Helium Corporation, Navajo, Ariz.

Dear Mr. Lambert:

In response to your letter of May 19th, enclosed please find our report covering first production from Section 25-20N-27E, Apache Co., Arizona.

I have been somewhat in doubt as to whether Crest or Eastern should report sales to Arizona Helium from Navajo Springs Unit as per our previous correspondence.

Inasmuch as the Unit Operator has apparently reversed his position from his letter of September 11, 1968 addressed to Richard McDonald, and has directed Arizona Helium through its production Mgr Robert MacTough to account for gas sales from the Unit (Well 35) to Eastern, by correspondence dated May 16th, 21, & 23, 1969, and has set forth in detail percentages of ownership and manner of distribution, I am of the opinion it is to the best interest of all concerned not to interfere or dissent and further complicate matters.

Therefore pending our accountant's review of the percentages of ownership as worked out by Unit Operator, Crest agrees to the suggested procedure concerning sales of gas from #35 to Arizona Helium Corporation.

Concerning the Crest Arizona Helium #8-X Santa Fe, it has not yet been made clear to me why the well is not producing, what steps have been taken to produce it, or what further measures are contemplated. Since no charts were submitted showing delivery of gas, and no gas was shown as produced from #8-X on Form #19, I have shown the well as shut-in and no gas produced, on Form No. 16. Am requesting specific information by letter to Mr. MacTough, Production Mgr., this date.

Sincerely yours,

C. F. Swain  
Crest Oil Company

OFFICE OF  
Oil and Gas Conservation Commission  
STATE OF ARIZONA  
ROOM 202  
1624 WEST ADAMS  
Phoenix, Arizona 85007  
PHONE: 271-5161

X-Lambert  
X-Chrono

May 22, 1969

Mr. Henry Fullop  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Eastern Santa Fe #13  
Eastern Santa Fe #14  
Eastern Santa Fe #17  
Eastern Santa Fe #31  
Eastern Santa Fe #32  
Eastern Santa Fe #35  
Eastern Ancon Santa Fe #21  
Eastern Reese #2  
Kerr-McGee Barfoot State #1  
Crest Santa Fe #2  
Crest Santa Fe #7

Permit #194  
Permit #206  
Permit #236 } X  
Permit #255  
Permit #258  
Permit #263  
Permit #234  
Permit #348 } X  
Permit #238  
Permit #110  
Permit #204

Dear Mr. Fullop:

In accordance with Rule 401 the Oil and Gas Conservation Commission, State of Arizona, has adopted procedures for the annual testing for all gas and/or helium wells.

The Commission's procedure is based upon and must be used in conjunction with the Manual of Back-pressure Testing of Gas Wells as issued by Interstate Oil Compact Commission, P. O. Box 53127, Oklahoma City, Oklahoma 73105.

The Commission has prepared, in addition, a supplement to the IOCC manual inasmuch as that manual is based upon a pressure base other than the 15.025 required by the State of Arizona. The supplement to the IOCC manual has made all necessary corrections to the IOCC manual to reflect the 15.025 pressure base.

Page 2  
Mr. Henry Fullop  
May 22, 1969

The tests as required by Rule 401 shall be conducted during the month of June each year and reported in duplicate by July 10th of each year. Forms 18 and 20 will be used for this purpose.

Yours truly,

James A. Lambert  
Administrative Assistant

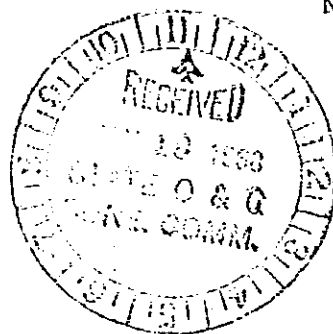
JB:jf  
Enc.  
copy to Mr. J. N. Edwards



EASTERN PETROLEUM CO.  
EASTERN DRILLING, INC.

TELEPHONE 38-24104 • P. O. BOX 291 • CARM, ILLINOIS

November 15, 1968



Mr. John Bannister  
Room 202  
1624 West Adams  
Phoenix, Arizona 85007

Re: Navajo Springs

Dear John:

This is a copy of Kerr's gas purchase statement for October, which shows the total only. Prior to this form of statement instituted a few months ago, there were separate statements for Barfoot and No. 13.

I have tried and you have tried and I don't know what else it takes to get the message through. I, too, would like this information for our files.

Please send a pad of Form No. 16.

11-15-68  
Yours very truly,

EASTERN PETROLEUM COMPANY

*J. N. Edwards*  
J. N. Edwards

JNE:sjh

cc: Mr. P. K. Smith, Jr., Manager  
Gas Processing Department  
Kerr-McGee Corporation  
Oklahoma City, Oklahoma 73102

#1 194

#1 238 ✓

#1 263 ✓

November 1, 1968

Mr. J.N. Edwards, Secretary  
Eastern Petroleum Company  
P.O. Box 291  
Carmi, Illinois 62821

Re: Monthly production report, Navajo Springs Unit

Dear Jesse:

Please refer to Mr. Lambert's previous correspondence concerning captioned subject.

To reiterate, the rules and regulations require that monthly production reports shall be filed with this Commission for all wells by the 15th of the succeeding month. Our Form 16 (sample attached) clearly provides that production shall be reported by well.

In addition, this form requires to be reported a status code (i.e. flowing or gas lift), barrels of water produced, days produced, quantity sold, and the purchaser's code.

To date we have received no reply to Mr. Lambert's letter of October 21, 1968. We are holding our compilation of September production for your reply. Will you therefore immediately bring yourself into compliance with the rules and regulations by furnishing the required report for September, 1968 and by the 15th of each month succeeding.

Should you have any questions, please contact us immediately.

Very truly yours,

John Bannister  
Executive Secretary  
m/mr

cc: Mr. F.L. Smith, Jr., Manager  
Gas Processing Department  
Kerr-McGee Corporation  
Oklahoma City, Okla. 73102

263

October 21, 1968

Mr. J. N. Edwards  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois 62821

Re: Eastern #13 Santa Fe Fee  
T20N, R27E, G & SRM  
Sec. 31: NE/4 SW/4  
Apache County, Arizona  
Permit #194

Kerr-McGee Barfoot State  
T20N, R27E, G & SRM  
Sec. 32: SW/4 NE/4  
Apache County, Arizona  
Permit #238

Eastern #35 Santa Fe Fee  
T20N, R27E, G & SRM  
Sec. 27: SW NE SW  
Apache County, Arizona  
Permit #263

Dear Mr. Edwards:

The Monthly Producers Report dated October 17, 1968, showed production in the unit only. We call to your attention Rule No. 502 wherein it is stated that the report shall be filed on each producing lease, not unit.

We received your letter from P. K. Smith, Jr., advising that Kerr-McGee Corporation would furnish you this specific information each month. We are willing at this date to prorate the production of the Barfoot State #1 and the Santa Fe #13 on the basis of last month's production, but John Bannister, the Executive Secretary, requested me to advise you that it will be impossible for us to accept such figures when Arizona Helium starts taking from Eastern #35 Santa Fe Fee.

We hope to receive an amended report for September, 1968, within the next few days. I note that my premature proration of production for August, 1968, was grossly inaccurate, and the September report when issued will reflect a correction. A prompt reply will allow us to put out a September Production Report that will not need be corrected.

Yours truly,

James A. Lambert  
Administrative Assistant

JAL:jf



Operator Eastern Petroleum Company

Bond Company U. S. Fidelity & Guaranty Co. Amount \$10,000

Bond No. 27716-13-3746-60 Date Approved 8-1-60

Permits covered by this bond:

SEE this  
file

269✓

234✓

81✓

230✓

252✓

229✓

251✓

237✓

107✓

236✓

207✓

218✓

157✓

209✓

88✓

206✓

80✓

194✓

78✓

188✓

264✓

155✓

263✓

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259✓

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258✓

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250✓

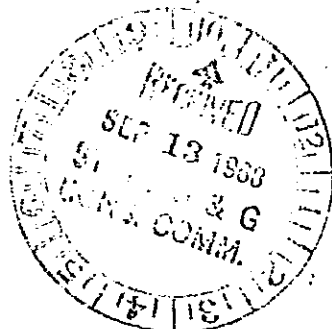
276✓

284✓

227✓

**CANCELLED**

DATE Jan 11-22-65



September 11, 1960

Mr. Richard McDonald  
Arizona Helium Corp.  
P. O. Box 14427  
Phoenix, Arizona 85012

Dear Mr. McDonald:

File → Crest Oil and Schlafly have been authorized by the Operating Committee, Navajo Springs Unit, to take in kind their proportionate part of the current monthly production of helium bearing gas from Navajo Springs.

As purchaser you are authorized to do those things necessary to take delivery, and in a manner that will not interfere with present operations. Further, Santa Fe Well No. 35 in Section 27-20N-27E has been made available for this purpose. It should be understood the Unit shall not bear any cost or expense of hooking up or laying lines to this well or of operations.

The current monthly authorized production from the Unit is 12,500 MCF. When you are on stream this quantity is to be divided and delivered in the following manner:

Arizona Helium Corp.	16.026% - 2,003 MCF
Kerr-McGee Corporation	83.974% - 10,497 MCF
Crest Oil Co. Ownership	8.552% of Unit
J. F. Schlafly Ownership	7.474% of Unit
	16.026%

You are to pay these owners direct for the entire amount delivered. They will, in turn, be responsible for timely payments to their royalty owner and to overriding royalty owners, if any, and to other owners, if any, not reflected in Division Orders or other public record.

Records - The Unit Operator, Eastern, is charged with the responsibility of keeping true and accurate records of all purchases and furnishing monthly reports of operations and production and pipe

263

Mr. Richard McDonald  
Page 2

September 11, 1968

line runs to Lessee. Therefore, it is most important that all recording charts be forwarded to this office for audit. Same procedure will apply to Kerr-McGee.

Since both purchasers from the Unit are charged with keeping their deliveries in line with the percentages and quantities set forth above it might be well to correlate your activities insofar as it is possible to do so. Over and under production will be adjusted periodically.

During the course of hookup, operations, etc. it is realized there might be problems. These will be dealt with as they arise. Please keep us informed of all progress.

Yours very truly,

EASTERN PETROLEUM COMPANY  
UNIT OPERATOR

By

*Henry Fullop*  
Chairman

HF:ajb

cc: Mr. John I. Fisher  
Kerr-McGee Corporation  
Kerr-McGee Building  
Oklahoma City, Oklahoma

Plant Superintendent  
Kerr-McGee Corporation  
Navajo, Arizona

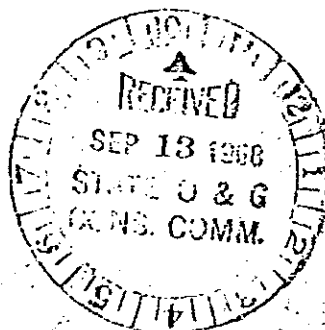
Mr. P. K. Smith  
Kerr-McGee Corporation  
Kerr-McGee Building  
Oklahoma City, Oklahoma

Mr. William R. Dickinson, Jr.  
120 West Adams, Room 2300  
Chicago, Illinois 60603

Mr. C. F. Swain  
Crest Oil Company  
P. O. Box 57  
Alton, Illinois

Mr. J. F. Schlafly  
First Nat'l. Bank Bldg.  
Alton, Illinois

Mr. John Bannister  
Oil & Gas Conservation Comm.  
1624 West Adams, Suite 202  
Phoenix, Arizona 85007



June 21, 1968

Mr. J. N. Edwards  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois

Dear Mr. Edwards:

In reponse to your request of June 10, 1968, this letter constitutes permission from this commission to exempt annual gas Capacity Test on the Ancon Santa Fe #21 well and the following shut-in helium wells in Navajo Springs Unit:

<u>Well No.</u>	<u>Tract No.</u>	<u>Location</u>
Santa Fe #14	III	5-19-27
Santa Fe #17	IV	4-19-27
Santa Fe #31	X	29-20-27
Santa Fe #32	XI	28-20-27
Santa Fe #35	XII	27-20-27
Reese #2	VII	1-19-26
Crest S.F. #7	II	7-19-27
Crest S.F. #2	V	33-20-27

Very truly yours,

John Bannister  
Executive Secretary  
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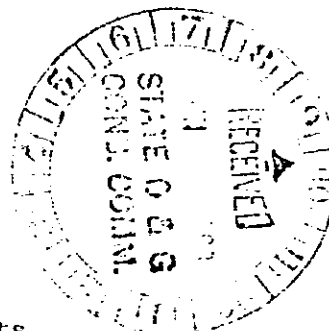


EASTERN PETROLEUM CO.  
EASTERN DRILLING, INC.

TELEPHONE 28-2404 (P.O. BOX 201) - ALBUQUERQUE, N.M.

June 10, 1968

Mr. John Bannister  
Executive Secretary  
Oil & Gas Conservation Comm.  
Room 202, 1624 West Adams  
Phoenix, Arizona 85007



Re: Back-Pressure Tests

Dear Mr. Bannister:

In accordance with your letter of June 6, 1968, we are applying for exemption from testing requirements for the following shut-in helium wells in Navajo Springs Unit:

<u>Well No.</u>	<u>Tract No.</u>	<u>Location</u>
Santa Fe #14	III	5-19-27
Santa Fe #17	IV	4-19-27
Santa Fe #31	X	29-20-27
Santa Fe #32	XI	28-20-27
Santa Fe #35	XII	27-20-27
Reese #2	VII	1-19-26
Crest S.F. #7	II	7-19-27
Crest S.F. #2	V	33-20-27

also,

Ancon S.F. #21 31-20-28

Inasmuch as we have no plans at present to produce any of these wells we feel no useful purpose would result from such tests.

Test results of Santa Fe #13, Sec. 30-20-27 and Barfoot-State #1, Sec. 31-20-27 will be forwarded within the prescribed time.

Yours very truly,

EASTERN PETROLEUM COMPANY

*J. N. Edwards*  
J. N. Edwards

OK  
JNE:sjn

June 6, 1968

Eastern Petroleum Company  
P.O. Box 291  
Carmi, Illinois

Attention: Mr. Henry Fullop

Gentlemen:

Your attention is referred to our letter of May 13, 1968 and Directive D-2-68 dated May 1, 1968, concerning capacity testing of all gas and/or helium wells.

As you are aware, you as operator of the Navajo Springs Unit are responsible for compliance on all wells in the Unit, both producing and non-producing (shut-in).

Should good and sufficient reasons be stated for deferment of this testing on specified wells, this Commission would give due consideration.

Very truly yours,

John Bannister  
Executive Secretary  
mr  
enc

November 8, 1954

Mr. Henry Waller, President  
Sears Roebuck Company  
P.O. Box 201  
Cedar, Illinois

Dear Sir:

Please send us logs, pluglogs, records, and/or completion re-  
ports on the following wells:

Case No. 524	873
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If any of these wells are not active, would appreciate a cur-  
rent drilling report. (Form 22, enclosed.)

John and I noticed on a recent trip that many of your wells  
are idle.

Yours very truly,

J.R. Swanson  
Geologist

cc  
#02

January 20, 1964

Mr. J. M. Edwards, Secretary  
Eastern Petroleum Company  
P. O. Box 291  
Carmi, Illinois

Re: #36 Eastern-Santa Fe Fee, Sec.21-T20N-R27E  
#35 Eastern-Santa Fe Fee, Sec.27-T20N-R27E

Dear Mr. Edwards:

We are returning to you the approved copies of permits  
of above two wells.

Per your request, we mailed you 14 of the application  
forms several days ago. We are presently short of  
these forms, but as soon as our new supply is delivered,  
we will mail you a good number of them.

Sincerely,

John K. Petty  
Acting Executive Secretary

JKP:mkc  
Encl. 2

*Receipt also enclosed  
application forms  
Mailed 20 mail 1/28/64*



EASTERN PETROLEUM CO.  
ACCOUNT NO. 2

DETACH AND RETAIN THIS STATEMENT  
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.  
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT REQUIRED.

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
		Application for permit to drill Santa Fe #35, Sec. 27-20N-27E, Apache Co., Arizona.				\$25.00